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Operation Manual
(For touch panel operation types)

ENGLISH

DVD Navigation Unit

AVIC-900DVD
AVIC-800DVD

DVD Map

CNDV-30

READ ME FIRST!

To Users Updating the Application Program from AVIC-9DVD, AVIC-8DVD, AVIC-9DVDII, AVIC-8DVDII

The application program of the AVIC-9DVD, AVIC-8DVD, AVIC-9DVDII or AVIC-8DVDII are updated by using the CNDV-30 update disc. Please read the cautions on the next page before updating. There is a slight chance that stored user-registered data will be lost upon completion of the update. Please be aware that the manufacturer cannot take any responsibility for lost data in the event data is lost.

Upgrading to a newer version → page 57

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Introduction

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Important Safety Information

Before using your Navigation System, be sure to read and fully understand the following safety information:

- Read the manual before operating this Navigation System.
- This Navigation System is intended solely as an aid to you in the operation of your vehicle. It is not a substitute for your attentiveness, judgement, and care when driving.
- Do not operate this Navigation System if doing so in any way will divert your attention from the safe operation of your vehicle. Always observe safe driving rules and follow all existing traffic regulations.
- Never allow others to use the system unless they have read and understood the operating instructions.
- Never use this Navigation System to route to hospitals, police stations, or similar facilities in an emergency. The map data may not include a comprehensive list of emergency service facilities.
- Route and guidance information displayed by this equipment is for reference purposes only. It may not accurately reflect the latest permissible routes, road conditions, or traffic restrictions.
- Traffic restrictions and advisories currently in force should always take precedence over guidance given by this product. Always obey current traffic restrictions, even if this product provides contrary advice.
- Failure to input correct information about the local time may result in the product providing improper routing and guidance instructions.
- Never set the volume of your Navigation System so high that you cannot hear outside traffic and emergency vehicles.
- To promote safety, certain functions are disabled unless the handbrake is on.
- The data encoded in the disc for this product is the intellectual property of the provider, and the provider is responsible for such content.
- As with any accessory in your vehicle's interior, you should not allow this Navigation System to divert your attention from the safe operation of your vehicle. If you experience difficulty in operating the system or reading the display, please make adjustments while safely parked.

Notes Before Using the System

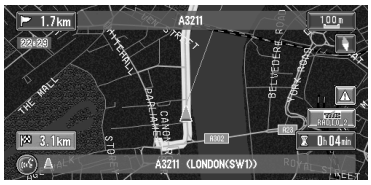
Precaution

- This software can be used with the following models:
  AVIC-900DVD, AVIC-9DVDII, AVIC-9DVD, AVIC-800DVD, AVIC-8DVDII, AVIC-8DVD
- Should this product fail to operate properly, contact your dealer or the nearest authorised Pioneer service facility.

Handbrake interlock

Certain functions offered by this Navigation System could be dangerous if used while driving. To prevent them being used while in motion, there is an interlock with your vehicle's handbrake. If you attempt to use these functions during driving, their onscreen touch keys may be indicated in grey and inoperable. If so, stop in a safe place, apply the handbrake, then operate.

Colour difference of the map display between day and night



Night display

The examples in this manual are illustrated using the daytime display. When driving at night, the colours you see may differ from those shown. To use this function, the Orange/white lead to this unit must be connected correctly.

➲ "Day/Night Display" ➞ Page 48

Avoiding low battery

When using this Navigation System, make sure to start your engine first. Using this Navigation System without starting the engine will run down the battery.

About this disc

Only use the Pioneer Map disc with Pioneer DVD Navigation Unit. You cannot use other discs. DVD-Videos and CDs can be played on AVIC-9DVD, AVIC-9DVDII, and AVIC-900DVD. When using AVIC-9DVD, refer to the DVD section in the "Operation Manual" provided with AVIC-9DVD. When using AVIC-9DVDII or AVIC-900DVD, refer to the DVD section in their respective "Hardware Manuals".

How to Read This Manual

This manual provides the important information you need to make full use of your new Navigation System. The beginning sections outline the Navigation System and describe its basic operation. The later sections describe the details of the navigation functions.
Please note that when you have decided what you want to do, you can find the page you need from the Table of Contents. If you want to check the meaning of a term displayed on the screen, you will find the necessary page from the "Display Information" at the end of the manual.

How to use this manual

For reasons of safety, it is particularly important that you fully understand your Navigation System before using it. Be sure to read Chapter 1 in particular.

1 **Basic Operation**

If you want to use the Navigation System immediately, please read this section. It will explain the basis of operating the system, including items appearing on the display and how to use the different menus.

2 **Setting a Route to Your Destination**

This section describes various ways of searching the destination, changing the route search conditions, and the route operation during route guidance.

3 **Utilising Various Information**

Describes convenient functions for navigation, including how to organise information on places you have visited and how to store data on the PC card.

4 **Customising Your Navigation System**

The behaviour of your Navigation System depends on a number of settings. If you need to change any of the initial settings (default settings), read the relevant section of this chapter.

5 **Operating Your Navigation System with Voice**

Describes navigation operations such as searching the destination and performing audio operations by voice.

Appendix

Read the appendix to learn more about your Navigation System and such information as the availability of after-care. Please see "Display Information" in the end of this manual for checking the details of each item on the menu.

Terminology

Before moving on, take a few minutes to read the following information about the conventions used in this manual. Familiarity with these conventions will help you greatly as you learn how to use your new equipment.

- Buttons on your Remote Control or display are referred to as:
  Ex.) **NAVI** button, **NAVI MENU** button.
- Items in various menus or touch keys displayed on the screen are referred to like this:
  Ex.) "**Destination**", "**Settings**".
- Extra information, alternative use and other notes are presented like this:
  Ex.)
  ❒ After removing the disc from the slot, keep it in the case.
- The references are indicated like this:
  Ex.)
  ➲ Setting the Route Options ➞ Page 27

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Chapter 1
Basic Operation

Flow from Startup to Termination

⚠ Caution

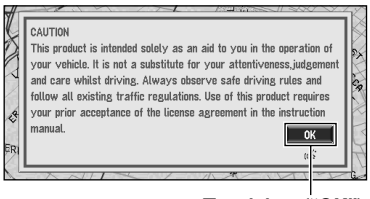
If this disc (CNDV-30) is not installed, see page 57 and install the disc.

1 Start the engine.
After a little time, the navigation opening screen comes on for a few seconds. Then, a message screen is displayed.

❒ If the disc is not set, the message asking to insert the disc appears. After you set the disc correctly, your Navigation System starts up.

2 Press the display's NAVI/AV button to switch the Navigation map screen.

3 Check the screen content and touch "OK".
You can operate the Navigation System by touching keys displayed on the screen.


CAUTION
This product is intended solely as an aid to you in the operation of your vehicle. It is not a substitute for your attentiveness,judgement and care whilst driving. Always observe safe driving rules and follow all existing traffic regulations. Use of this product requires your prior acceptance of the license agreement in the instruction manual.
OK

Touch key ("OK")

If the route is already set, switches to route guidance mode.

➲ How to read the current position screen → Page 19
➲ Starting the operation with voice commands only → Page 49
➲ Time settings → Page 58

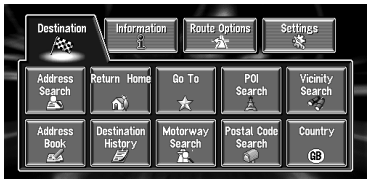
❒ Press the **VOICE** button of the steering remote control to proceed instead of touching "**OK**".
❒ The text of touch keys which are not effective is indicated in grey.
❒ Be sure to touch the touch keys with a finger. Touch keys cannot be operated by a pen or similar object.

4 If you are recording driving information, touch "Business" or "Private". If you are not recording, touch "Off".

The map of your surroundings is displayed.
➲ Recording driving information → Page 48

5 Press the display's NAVI MENU button.
Displays the main menu.

6 Searches the destination and gives route guidance.



➲ Specifying the address and searching the destination → Page 14
➲ Searching the destination by map → Page 22
➲ Other search methods → Chapter 2

7 Turn off the car engine.
This Navigation System also turns off.

❒ Until the vicinity of the destination is reached, the set route will not be deleted even if the power is turned off.

Basic Navigation

The most frequently used function is the Address Search, in which the address is specified and the destination searched. This section describes how to use the **Address Search** and the basics of using the Navigation System.

⚠ Caution

For safety reasons, you cannot use these functions while your vehicle is in motion. Stop and put the handbrake on before use.

Basic flow of operation

1 Press the NAVI MENU button to display the Main menu.

2 Select "Destination" from the Main menu.

3 Select the method of searching for your destination.

4 Enter the information about your destination.

5 Your Navigation System sets the route to your destination, and the map of your surroundings appears.

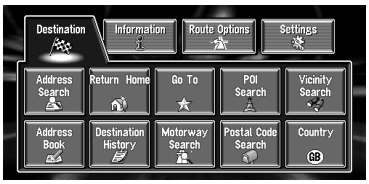
6 Driving in accordance with the navigation information.

1 If the map is not displayed, press the display's NAVI MENU button to display the main menu.

2 Touch "Country Code".
If the destination is in another country, this changes the country setting.

3 Touch the country codes of the destination country and touch "OK".
Modifies the country setting and returns you to the Destination menu.

4 Touch "Address Search".
Selects the method for searching the destination.



- ➲ **Return Home** → Page 26
- ➲ **Go to** → Page 26
- ➲ **POI Search** → Page 23
- ➲ **Vicinity Search** → Page 24
- ➲ **Address Book** → Page 26
- ➲ **Destination History** → Page 26
- ➲ **Motorway Search** → Page 25
- ➲ **Postal Code Search** → Page 25

There are two methods of address search: one involves first specifying the street name and the other specifying the name of the town or area first. This description uses the method of specifying the street name first as an example.

5 Input the street name.
Touch the text you wish to input. If the next screen is not automatically displayed even though the street name is input, try touching "**OK**".

The input text.

The number of applicable candidates.

"City" :
Touch if you wish to first specify the destination town or area.

⌫ :
The input text is deleted letter by letter from the end of the text. Continuing to press deletes all of the text.

"Country Code"
You can select the coutry/area you want to search.

"Others" :
You can input text with accents and umlauts.

"Sym." :
You can input text with marks such as "&"and "+".

"0-9" :
You can input text with numbers.

"Back" :
Returns you to previous screen.

- ❒ For example, for "West Higgins Road", you can just enter part of the name, such as "Higgins".
- ❒ While entering characters, if there is only one possible character following the next, that character is automatically entered.
- ❒ When touching "**Back**" on the text input screen to return to the previous screen, you may not be able to input text. In such case, delete the letters entered in the text box.

Searching your destination after specifying the name of city or township

You can narrow down the searching candidates by initially specifying the name of city or township where your destination is located. Inputting the name of the town or area then selecting the destination town or area from the list returns you to the Street Name input screen. Now input the street name, select the street from the list, and proceed to step 9.

In the selected country, if you touch "**City**" without entering the name of city or township, you can check the list of the cities or townships, which you have searched in the past. (This item cannot be selected when searching for the first time with this system or when you have selected a country that you have never searched before.)

6 Touch the street from the list.

Touching the ▲ or ▼ on the scroll bar scrolls you through the list and allows you to view the remaining items.

- Touching the 🗺 displays a map of the place you have selected.

➲ Searching the destination by map → Page 22

- In the case of an item that cannot be displayed in a line, touching the ▷ to the right of the item allows you to see the whole line.

- Touching the ✚ specifies the selected street and streets intersecting it, allowing you to set an intersection as your destination. This is useful when you don't know the house number of your destination or cannot input the house number of the specified street.

7 Input the destination town or area.
If the list screen is displayed, proceed to step 8.

8 Touch the city or township where your destination is located.

If the area has no house number, a route calculation starts. Proceed to step 10.

❒ If the selected street is very long, and passes through several cities or township, the screen for entering the name of city or township appears.

9 Enter house number.

On this display, you can select the following item:

Map :
A map for the input house number is displayed.

❒ If there are several locations corresponding to the entered house number, a list of the number range appears. To start the route calculation, touch the range within the list you wish to specify as the destination. You can also see the destination on the map by touching the ▦ to the right of the list.

➲ Searching the destination by map → Page 22

10 Touch "OK".
Route calculation starts. When the route calculation is completed, the map of your surroundings appears. (The route is displayed in green.)

❒ If you press the **NAVI** button during route calculation, the calculation is cancelled and the map display appears.
❒ When performing an area search with the route already set, select whether to make the specified area your destination and search for a new route, or search for a route via that area.

➲ Adding way points to the route → Page 31
➲ Once searched for, a location is automatically stored in the "**Destination History**" → Page 34

11 Drive in accordance with the screen and voice information.
Your Navigation System gives you the following information with the timing adjusted to the speed of your vehicle:

- Distance to the next turning point
- Direction of travel
- Road number of the motorway
- Way point (If this is set)
- Your destination

➲ How to view the screen → Page 19
➲ Searching for another route → Page 30
➲ Cancelling route guidance → Page 31

❒ Touching the ▷ 0.6km or pressing the remote control's **GUIDE** button allows you to hear the information again.
❒ If you deviate from the route with the Guidance set to **St.List Mode** or **Mixed Mode** and enter a street not recorded on the disc, the screen changes to **Map Mode**. When you return to the route, returns to the original mode and resumes route guidance.
❒ If you stop at a petrol station or a restaurant during the route guidance, your Navigation System remembers your destination and route Information. When you start the engine and get back on the road, the route guidance resumes.

How to Use Menu Screens

The basic operation of the navigation is performed by using menus.
There are two types of menu: the “Main menu” and the “Shortcut menu”.

Main menu

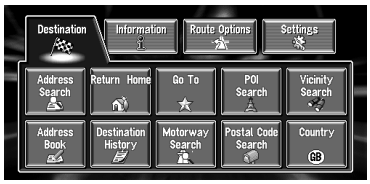
You use this menu for basic operation of your Navigation System.

1 **With the map displayed, press the display’s NAVI MENU button.**

2 **To change to the menu you want to use, touch the name of the menu displayed at the top of the screen.**
The main menu is divided into four: “**Destination**”, “**Information**”, “**Route Options**”, and “**Settings**”.

3 **If you want to return to the map, press the NAVI (or NAVI MENU) button.**

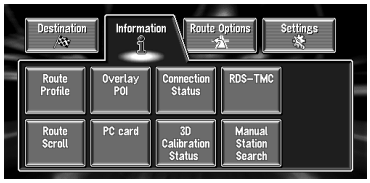
Destination menu



Select the destination search method. Also operates from this menu when you change the country you want to search.

➲ Specifying the address and searching the destination ➞ Page 14
➲ Searching the destination by map ➞ Page 22
➲ Other search methods ➞ Chapter 2

Information menu



Used to check the route you set or check the navigation status. Also operates from this menu when you use a PC card.

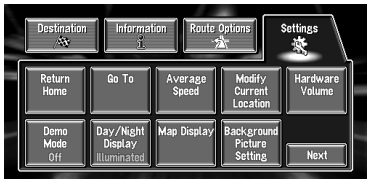
➲ Checking the set route ➞ Page 29
➲ Checking the navigation status ➞ Page 45
➲ Using a PC card ➞ Page 41

Route Options menu

Used to specify the conditions for setting the route to the destination.

➲ Setting the Route Options ➞ Page 27

Settings menu



Set the navigation functions so they can be used easily.

➲ Settings menu ➞ Chapter 4

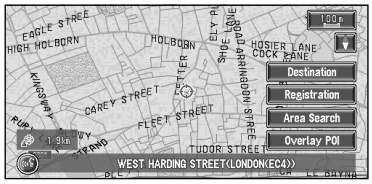
❒ If the contents of the menu are not fully displayed on the screen, touch “**Next**” to view the remaining contents.

Shortcut menu

Shortcuts allow you to perform various tasks, such as route calculation for the location indicated by the cross pointer, or registering a location in the **Address Book**, faster than using the Main menu.

1 With the map displayed, lightly touch anywhere on the map.
If you continue to touch the map, it will start scrolling.

➲ Moving the map to view the part you want to see ➞ Page 21



Destination
Displayed when the map is scrolled. Set the route to the place specified with the cross pointer.

➲ Searching the destination by map ➞ Page 22

Chg.Route
Can be selected only during route guidance. You can add changes to the routes in the route guidance.

➲ Searching another route ➞ Page 30
➲ Detour for a specified distance ➞ Page 30
➲ Checking the route ➞ Page 29
➲ Cancelling route guidance ➞ Page 31
➲ Skipping a way point ➞ Page 32

Registration
Registering the location indicated by the cross pointer to **Address Book**.

➲ Registering a place ➞ Page 33

Area Search
You select a location with the cross pointer. Nearby POIs (Points Of Interest) will also be found.

➲ Searching the facilities surrounding a certain place ➞ Page 24

Overlay POI
Displays on the map the mark for surrounding facilities (POI).

➲ Viewing POI information ➞ Page 22

How to Use the Map

Most of the information provided by your Navigation System can be seen on the map. You need to get to know how the information appears on the map.

Switching the Current Position Screen Display Mode

This section describes how to display the current position screen and change the map display mode.

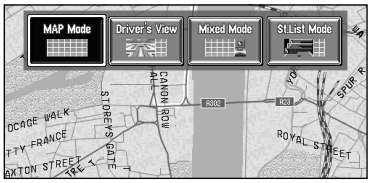
There are four types of map display.

- **Map Mode**
- **Driver's View**
- **Mixed Mode** (during route guidance only)
- **St.List Mode** (during route guidance only)

1 Press the NAVI button to display a map of the area around your current position.

2 Press the NAVI button again.

3 Touch the mode name or press the NAVI button to select the mode you want to display.



❒ If the mode is selected by pressing the **NAVI** button, the screen soon automatically switches to the selected map display mode.

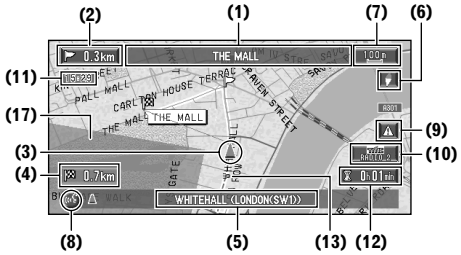
How to view the map of the current location

⚠ Caution

In Driver's View, the speedometer is indicated on the screen, but this will differ from the actual speed of your vehicle. Use the speedometer of your vehicle for confirming the speed.

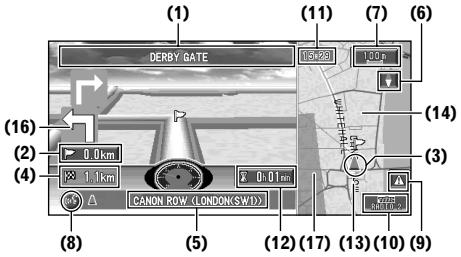
Map Mode

Displays standard map.



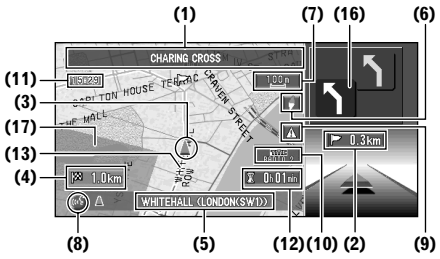
Driver's View

The map from the driver's viewpoint is shown.



Mixed Mode

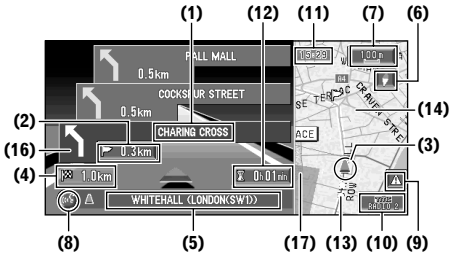
The map of your surroundings is shown on the left, and an arrow indicating the direction of travel is shown on the right.



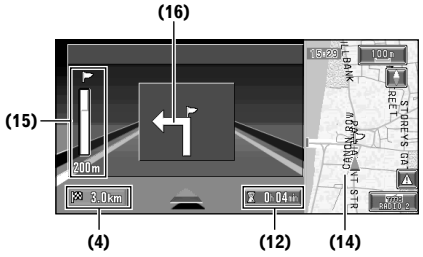
St.List Mode

Displays the name of the street you will next travel along and an arrow indicating the direction of travel.

Normal condition

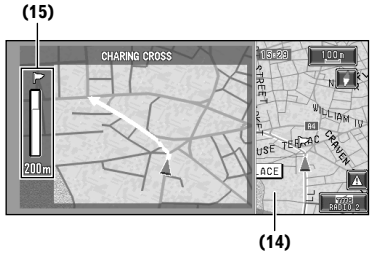


When approaching an intersection (When "Close-up of Junction" is off)



Enlarged map of the intersection

When "**Close-up of Junction**" in the Settings menu is "**On**", an enlarged map of the junction appears.



❒ When set to **Driver's View**, cannot be changed to an enlarged intersection map.

Display items

Guidance point*
The next guidance point (next turning point, etc.) is shown by a yellow flag.

Destination*
The checker-flag indicates your destination.

(1) Name of the next street to be used*

(2) Distance to the guidance point*
Touch to access the next information.

(3) Current location
The current location of your vehicle. The arrow shows your heading, and the display moves automatically as you drive.

(4) Distance to the destination (or distance to way point)*
If way points are set, the display changes with each touch.

(5) Name of the street your vehicle is travelling along (or City Name, etc.)

(6) Compass
The red arrow shows North. Each touch changes the map's display direction. (North is UP or Heading Up.)

(7) Map scale
The scale of the map is indicated at distance. In **St.List Mode** and **Driver's View**, it shows the scale of the map displayed on the right-hand side of the screen. Touch to change the map's scale.

➲ Changing the map's scale → Page 21

(8) VOICE button
Touch to change to voice recognition mode.

➲ The voice operation of the navigation system ➞ Chapter 5

(9) NEW button
Displays the newness or oldness of the traffic information by colour. Touch to display a traffic information list.

➲ Using traffic information ➞ Page 38

(10) TMC button
When there is a route, touch to check whether there is any traffic information relating to your route.
When there is no route, touch to display a traffic information list.

(11) Current time

(12) Estimated time of arrival (or travel time to your destination)*
The display changes with each touch.

(13) Tracking mark
The tracking mark shows the route your vehicle has travelled.

➲ Select the tracking setting ➞ Page 49

(14) Map of your surroundings (Side map)
Touching this takes you to the map scroll screen.

(15) Distance to an intersection*
Displayed on the enlarged intersection map. The green bar gets shorter as your vehicle approaches an intersection.

(16) Next direction of travel*

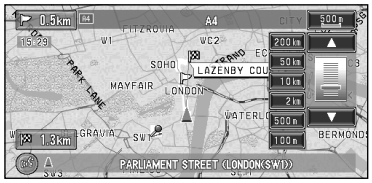
(17) Area to Avoid*
This is indicated only when "**Areas to Avoid**" is set to "**On**".

➲ About detour area ➞ Page 37

❒ Information with the mark (*) appears only when the route is set.
❒ Depending on the conditions and settings, some items may not be displayed.

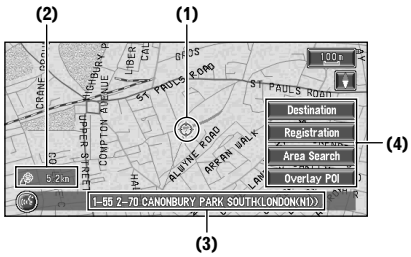
Changing the scale of the map

Touching the "Map scale" key displayed on the upper right of the screen displays the scale gauge and "Map scale" key. Directly touching the "Map scale" key changes the map to the selected scale. Touching △ or ▽ on the scale gauge allows you to specify the scale in greater detail within a range of 25 meters - 2000 kilometres (25 yards - 1000 miles).



Moving the map to the location you want to see

Touching anywhere on the map for at least 2 seconds changes the map to Scroll mode and the map begins scrolling in the direction you touched. The scrolling stops when you remove your finger from the screen. At this time, the cross pointer appears at the centre of the screen. Also a line connecting between the current location and cross pointer appears.
Pressing the display's **NAVI** button returns you to the map of your surroundings.



(1) Scroll location
The position of cross pointer shows the location selected on the current map.

(2) Distance from the current location
Shows the distance in a straight line between the location indicated by the cross pointer and your current location.

❒ Touch the area close to the centre of the screen to scroll slowly; touch near the sides of the screen to scroll through quickly.

(3) The street name, city name, area name and other information for this place.
Touching the ▷ on the right displays hidden text.

➲ Displaying information on the specified location → Page 22

(4) Shortcut menu

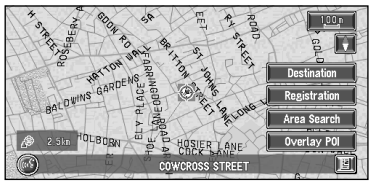
➲ How to view shortcut menu → Page 18

Viewing the information of a specified location

The icon appears at registered places (home location, specific places, address book entries) and places where there is a POI or traffic information. Place the cross pointer over the icon to view detailed information.

1 Scroll the map and move the cross pointer to the place you want to view.

2 Touch .



Information for a specified location appears. The information shown varies according to the location. (There may be no information for that location.)

➲ Registering places → Page 34
➲ Displaying facilities (POI) mark on the map → Page 24
➲ Using traffic information → Page 38

3 Press the NAVI button.
You are returned to the map of your surroundings.

Finding a destination on the map

If you search the location you want to visit by scrolling the map, and touch "**Destination**" in the Shortcut menu, you can specify your destination on the map.

1 Press the NAVI button to access the map screen.

2 Touch the map for at least 2 seconds.
The map display changes to Scroll mode.

3 Scroll the map and move the cross pointer to the place you want to make your destination.

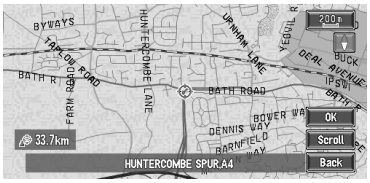
➲ Moving the map to view the part you want to see → Page 21

4 Touch "Destination".

❒ If you press the **NAVI** button during route calculation, the calculation is cancelled and the map display appears.

When the appear on the right of the list

You can also set a destination by touching the to the right of the list. Touch "**OK**" to confirm. The location pointed by the cross pointer will be set as a destination.



Alternative option:

Scroll :
The map display changes to Scroll mode, and the Shortcut menu appears.

CRB1881A_ENGLISH.book Page 23 Thursday, April 24, 2003 11:54 AM

Setting a Route to Your Destination

⚠ Caution

For safety reasons, these functions are not available while your vehicle is in motion. Stop and apply the handbrake before use.

- ❒ Some information on traffic regulations by days or time is indicated according to the time when the route calculation is performed. Thus, it may not correspond with a certain traffic regulation when your vehicle actually passes the location. Also, the information of the traffic regulations provided will be for a passenger vehicle, and not for a truck/lorry or other delivery vehicles. When driving your vehicle, follow the actual traffic regulations.
- ❒ If you press the **NAVI** button during route calculation, the calculation is cancelled and the map display appears.

Selecting the country where you want to search

When searching for your destination, your Navigation System searches for it in the country/area currently selected. Therefore, if your destination is in another country/area, you must change the country/area setting before starting the destination search.

1. **From the Main menu, select "Destination".**
2. **Touch "Country".**
3. **Touch the coutry codes of the destination country and touch "OK".**
   When you have returned to the previous display, go to the search operation.

Finding Your Destination by Selecting the Type of Facility

Information about various facilities (Points Of Interest - POI), such as petrol stations, amusement parks or restaurants is available. By selecting the category (or entering the POI Name), you can search for a Point Of Interest.

- ❒ You can also narrow down the search range by initially specifying the name of the city or township where your destination is located.

Searching for Points of Interest (POI)

1. **Touch "Destination" in the Main menu, and then touch "POI Search".**
2. **Touch "Category".**
   If you already know the name of the facility, then proceed to Step 5.

   "**City**" :
   Touch if you wish to first specify the destination town or area.

   ➲ "Selecting the country where you want to search" ➞ Page 23
3. **Touch the category.**
   POI's are divided into several categories.

If the category is not sub-divided into more detailed categories, the list will not be displayed. Proceed to Step 5.

"Name" :
Touch if you wish to first specify the POI Name.
"City" :
Touch if you wish to first specify the destination town or area.

4 Touch the subcategory.

5 Enter the name of the POI.
If the list does not automatically appear when the name of the POI has been entered, try touching "**OK**".

➲ Searching your destination after specifying the name of the city or township → Page 15

6 Touch POI for your destination.

❒ Touching the displays a map of the surroundings of the selected POI.

➲ Searching the destination by map → Page 22

❒ If the selected POI is the name of a chain of outlets and consequently the same store name applies to different locations (the number of outlets appears next to the chain's name), touch the name of the POI to display a list of those POIs and touch the particular POI that is your destination.

Finding a POI in your surroundings

You can search for Points Of Interest in your surroundings on the map. Use it to find a POI to visit during a journey.

1 Touch "Destination" in the Main menu, and then touch "Vicinity Search".
The list of Points Of Interest categories appears.

2 Touch the category.

❒ If you want to search with more detailed categories, touch . When the subcategory list appears, touch the item and proceed to step 3.

3 Touch POI.
Names of POIs and their distance from your current location appear. They are listed in nearest-to-furthest order. To the left of each item is an icon indicating the category.

❒ When you touch , the POIs around the specified location are shown on a map.

➲ Searching the destination by map → Page 22

❒ Searching range is approximately 16km (10miles) square from the current location or the location indicated by the cross pointer.

❒ "**Vicinity Search**" in the Main menu searches your surroundings. On the other hand, in the case of "**Area Search**" in the Shortcut menu (→ Page 18), the area around the cross pointer will be searched.

Displaying Certain Points Of Interest on the Map

Selected Points Of Interest (POI) in a certain category can be shown on the map, and you can check the location on the display while driving.

1 Touch any part of the map screen.
The Shortcut menu appears.

2 Touch "Overlay POI".
The list of POI categories appears.

3 Touch the category you want to display.
The selected item is marked. If you want to select other categories, repeat this step.

❒ If you want to search with more detailed categories, touch . When the subcategory list appears, touch the item you want to display and touch "**OK**".

4 Touch "OK".
POI's in the selected category appear on the map.

➲ Searching the destination by map → Page 22

➲ Viewing the information of POI → Page 22

❒ When just one sub-category is selected, the corresponding category is marked blue. When all the sub-categories within a category are selected, that category is marked red.

Finding Your Destination by Specifying the Post Code

If you know the post code of your destination, you can use it to find your destination.

1 Touch "Destination" in the Main menu, then touch "Postal Code Search".
The post code input screen appears.

➲ "Selecting the country where you want to search" → Page 23

2 Input the post code, then touch "OK".
The city closest to the location corresponding to the input number is automatically selected. If you input a British post code, a map of the relevant place is set to your destination.

❒ If the post code you entered is not found, a message appears. Select "**Yes**" and re-enter the post code. (If you select "**No**", the search is cancelled.)

3 Search your destination in accordance with the steps after step 5 (→ Page 14) in Chapter 1 "Basic Operation".

❒ If a city is located in an area outside the map that is displayed when selecting a post code, or a lot of cities are located near that location, even if the city is in the area of the selected post code, it may not be selected.

❒ Not all post codes are recorded on the disc. Thus, you may not be able to search the location corresponding to the post code you enter. In such a case, try the following:

- In the case of a post code that contains the characters such as "1322HP", you may not be able to search for your destination. In such a case, try searching by deleting the last character of the character string you entered, one by one.
- British post code, such as "SL2 4QP" should be entered completely. If entered with last characters being omitted like "SL2 4", you cannot perform calculation properly.

Setting an Entrance or Exit of a Motorway as Your Destination

You can set the entrance or exit of a motorway as your destination.

1 Touch "Destination" in the Main menu, and then touch "Motorway Search".
The display for entering the name of the motorway appears.

➲ "Selecting the country where you want to search" → Page 23

2 Enter the name of the motorway and touch "OK".
The list of the motorways matching the name appears.

3 Touch the motorway.
The display for selecting your destination to the entrance or to the exit of the motorway appears.

4 Touch "Entrance" or "Exit".
The list of entrances to, or exits from, the selected motorway appears.

5 Touch your destination.

❒ You can also see the destination by touching the on the right of the list.

➲ Searching the destination by map → Page 22

Route Calculation to Your Home Location or to Your Favourite Location

If your home location is registered, the route home can be calculated, by a single touch of the touch key from the Main menu. Also, you can register one location, such as your workplace, as your favourite location, and the route is calculated in a similar way.

1 Touch "Destination" in the Main menu, and then touch "Return Home" or "Go to".

➲ "Registering Your Home and Your Favourite Location" ➞ Page 33

Selecting Destination from the Destination History and Address Book

Any place that has been searched before is stored in the "**Destination History**". Places that you have registered manually, such as your home, are stored in the "**Address Book**". Simply select the place you want to go to from the list and a route to that place will be calculated.

1 Touch "Destination" in the Main menu, and then touch "Address Book" or "Destination History".

2 Touch your destination.

Route calculation starts.

➲ For information on the **Address Book** ➞ Chapter 3

➲ For information on the **Destination History** ➞ Chapter 3

❒ You can also see the destination by touching the on the right of the list.

➲ Searching the destination by map ➞ Page 22

Modifying the Route Calculation Conditions

You can change the route calculation conditions using the Route Options menu. The following description features an example of changing the number of the route to be searched.

1 **Touch "Route Options" in the Main menu.**
The Route Options menu appears.

2 **Touch "Route No.".**
The content currently set appears under the name of the item. Each time you touch the item, the setting changes. Repeatedly touch the item until the value you want to set appears.

Items that Users can Change

This section describes the details of the setting for each menu. Settings marked with an asterisk (*) show that they are default or factory settings.

Auto Reroute

This setting controls whether, when you stray from the guided route, the system automatically recalculates the route to your destination.

On* :
Auto Reroute function is turned on.
Off :
Auto Reroute function is turned off.

Avoid Motorway

This setting controls whether or not motorways maybe included in the road calculation. (A route using motorway may be calculated in some cases, such as when setting your destination far away.)

On :
Calculate a route that avoids motorways.
Off* :
Calculate a route that may include motorways.

Disp. avoided route

This setting controls whether or not alternative routes may be presented. This might happen in case there are traffic jams along the calculated route.

On* :
If the system searches another route to avoid the traffic jam and finds a new route, a map for comparing the current route with the new route is displayed. (Depending on the situation, a new route may not be displayed.)
Off :
Route is not recalculated.

Fastest/Shortest

This setting controls whether the fastest or the shortest route should be calculated.

Shortest :
Calculate a route with the shortest distance to your destination as a priority.
Fastest* :
Calculate a route with the shortest travel time to your destination as a priority.

Auto Avoid Traffic

When you search a route, set whether or not to search a route avoiding traffic jam based on traffic information. (However, there may be times when traffic jam cannot be avoided.)

On :
Search a route with no traffic jams.
Off* :
Search a route with no regard for traffic jams.

Route No.

This setting controls whether the system should calculate only one route, or several routes.

1*:
Route options are not shown, and only one route judged as being optimum by your Navigation System is calculated.
Multiple Routes :
Several route options are calculated (maximum 6 routes).

Avoid Toll Road

This setting controls whether or not toll roads should be taken into account.

On :
Calculate a route that avoids toll roads.
Off* :
Calculate a route that may include toll roads.

Areas to Avoid

➲ About Areas to Avoid ➞ Page 37

Avoid Ferry

This setting controls whether or not ferry crossings should be taken into account.

On :
Calculate a route that avoids ferries.

Off* :
Calculate a route that may include ferries.

Perform the route calculation of the several route options, and select one

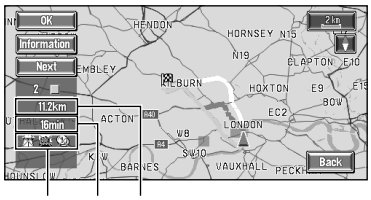
You can get route calculations of several route options. After route options are calculated, select the one you want.

1 Set the "Route No." to "Multiple Routes".

➲ Changing the search conditions ➞ Page 27

2 Search your destination and set the route.
Calculated routes are shown in different colours (from two to six routes).

3 Touch "Next" to change the displayed route.



The following information is displayed on this screen:

(1)Route calculation condition
Displaying the conditions set by the Route Options menu by icon.
- Use/avoid motorway
- Use/avoid toll road
- Use/avoid ferry

Displaying impracticability of fulfilling the conditions by icon.
- Pass through Area to Avoid against the setting "**Areas to Avoid**" is "**On**".
- Use toll road against the setting "**Avoid Toll Road**" is "**On**".

(2)Distance to your destination
(3)Travel time to your destination

❒ The "**Avoid Motorway**" setting may not be reflected, depending on the distance to the destination.

4 Touch "Information" to check the information of the selected route.
You can also check details of the roads along the selected route. (If you touch "**Back**", you can return to the previous display.)

➲ "**Route Scroll**" ➞ Page 29 (Step 3 and 4)
➲ "**Route Profile**" ➞ Page 29 (Step 3 and 4)

❒ After the route is calculated, it may take some time until the detailed route information (Route Profile) can be confirmed.

5 Touch "OK".
The route you selected is accepted, and the map of your surroundings appears. When you start driving, the route guidance begins.

➲ For information on Route Guidance ➞ Page 16

❒ If the above operations are not performed within 30 seconds after the route calculation is completed and you have already started your vehicle, the route selected at the time is automatically chosen.

Checking the Set Route

You can check information about the route between your current location and your destination.
You can select two methods: checking the passing streets with a list; and checking the shape of the route by scrolling the map along the route.

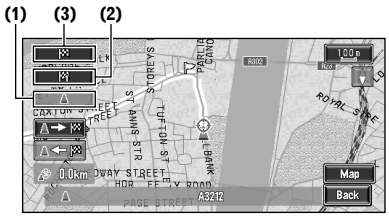
Checking the set route with the map

1 Touch the map screen.
The Shortcut menu appears.

2 Touch “Chg.Route”.
The Route/Detour menu appears.

3 Touch “Route Scroll”.
The screen to select the point to start scrolling appears.

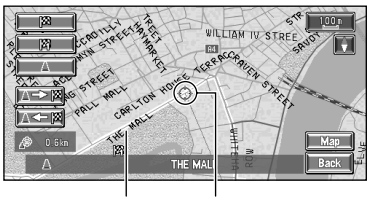
4 Touch the point to start scrolling.



You can select the following items:
(1) Starting Point
(2) Way Point (If this is set)
(3) Destination

❒ If you have selected “**Way Point**”, a list of the way points on the route is displayed. Touch the place you want to start scrolling from and proceed to step 5.

5 Touch [▲◀] or [▲▶] to scroll the map.
If necessary, the scale of the map can be changed.



You can select the following items:
Map :
The scroll screen is displayed.

➲ Searching the destination by map ➞ Page 22

6 Touch “Back”.
You can return to the previous display.

Checking the set route with text

This function is not available if your vehicle has deviated from the set route.

1 Touch the map screen.
The Shortcut menu appears.

2 Touch “Chg.Route”.
The Route/Detour menu appears.

3 Touch “Route Profile”.

4 Check the contents on the display.
As necessary, scroll the list.

5 Touch “Back”.
You can return to the previous display.

❒ When a long distance route is calculated, your Navigation System may not be able to list all the roads. (In this case, the remaining roads will be shown in the list as you drive on.)

Checking the set route from the Information menu

You can also check the information about the set route from the Information menu.

1 **After touching "Information" in the main menu, touch "Route Profile" or "Route Scroll".**

2 **Check the contents on the display.**

➲ "**Route Scroll**" → Page 29 (Step 3 and 4)
➲ "**Route Profile**" → Page 29 (Step 3 and 4)

3 **Touch "Back".**
You can return to the previous display.

Recalculating the Route to Your Destination

You can recalculate the route to avoid a traffic jam or road works ahead. You can set the length of the area, and avoid just that area, or you can even search a new route from the current location to your destination. (On the map screen during route guidance, try the following operations.)

1 **Touch the map screen.**
The Shortcut menu appears.

2 **Touch "Chg.Route".**
The Route/Detour menu appears.

3 **Touch "Reroute" or the distance from the list.**

After the route is calculated, the map screen shows your surroundings and route guidance is resumed.
On this display, you can select the following items:
Reroute :
The route from the current position to your destination is recalculated.
The distance of the detour (1-50 km/mi) :
Searches detours of a specified distance in the route ahead of your current position.

➲ For details of switching the display between "**km**" and "**mi**"(miles). "KM/Mile Setting" → Page 49.
➲ "Auto Avoid Traffic" → Page 27

Cancelling the Route Guidance

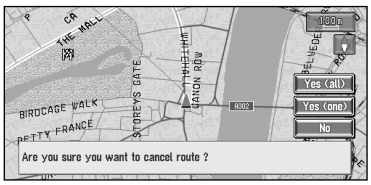
If you no longer need to travel to your destination or if you want to change your destination, follow the steps below to cancel the route guidance.

1 Touch the map screen.
The Shortcut menu appears.

2 Touch "Chg.Route".
The Route/Detour menu appears.

3 Touch "Cancel Route".
The message confirming whether to cancel the current route appears.

4 Touch "Yes (all)".



The current route is deleted, and a map of your surroundings reappears.
On this screen, you can also select the following items:

Yes (one) :
Route is recalculated by canceling the selected way point.

No :
Returns to the map of your surroundings without deleting the route.

Adding Way Points to the Current Route

You can select way points (locations you want to visit on the way to your destination) and you can recalculate the route to pass through these locations.

Adding a way point

You can add up to five way points. This is achieved as follows :

1 Specify the location you want to visit.
Specify a way point in the same way as specifying a destination.
At completion of the location search, a message is displayed asking whether or not to set that specified as the destination, or as a pass-through location.

2 Touch "Way Point".

3 Confirm the contents of the list, and touch "Done".

Route calculation with the specified location as a way point starts when you touch "**Done**".
On this display, you can select the following items:

Add :
Return to Destination menu and add way points (you can add up to five way points).

Delete :
You can delete way points from the list.

Sort :
You can sort your destination and way points in the order of the nearest (distance in a straight line) from the current location.

Original :
You can return the way points and destination to their original order.

Skipping a way point

If the points are set, the next way point along the route can be skipped.

1 **Touch the map screen.**
The Shortcut menu appears.

2 **Touch "Chg.Route".**
The Route/Detour menu appears.

3 **Touch "Skip Way Point".**
A message asking whether you want to skip the next way point appears.

4 **Touch "Yes".**
A new route to your destination through all the remaining way points, except for the skipped way point, is calculated.

Deleting a way point from the route

If you no longer need to pass through a way point you have not yet reached, you can delete that place from the list of way points and calculate a new route.

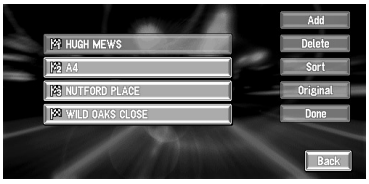
1 **Touch the map screen.**
The Shortcut menu appears.

2 **Touch "Chg.Route".**
The Route/Detour menu appears.

3 **Touch "Cancel Route".**
A message asking whether you want to cancel the route appears.

4 **Touch "Yes (one)".**

5 **Touch the way point you want to delete.**



6 **Touch "Delete".**

❒ If you want to delete other way points, repeat Steps 5 and 6 above.

7 **Touch "Done".**
A new route to your destination via the remaining way points is calculated.

CRB1881A_ENGLISH.book Page 33 Thursday, April 24, 2003 11:54 AM

Editing Registered Locations

The **Address Book** can store up to 300 registered locations. These can include home location, favourite places, and destinations you have already searched. This registered location information can also be modified. Also, routes to registered locations can be calculated by touch screen or voice. Registering places you visit frequently saves you time and effort.

❒ You can register up to 100 entries for voice operation.

Registering Your Home and Your Favourite Location

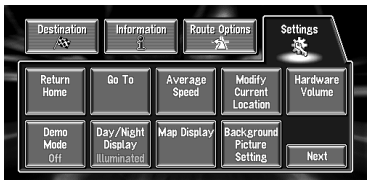
Of the 300 registered locations that can be stored, home location and favourite locations can be stored separately in the **Address Book**. Registering your favourite location for the first time is described here. You can change the registered information later. You might find it useful to register your workplace or a relative's home as your favourite location.

Map icons:

:
Home location icon

:
Favourite location icon

1 Touch "Settings" in the Main menu, then touch "Go to".
When registering your home location, touch "**Return Home**".



You can select a method of location search on the display.

❒ The items already registered under "**Return Home**" or "**Go to**" can be modified.

2 Search for a location to register.

➲ Information on searching locations to register → Chapter 2

3 Point the cross pointer to the location you want to register and touch "OK".
Complete the registration and return to the Main menu.

❒ Items registered under "**Go to**" can be edited and used for voice recognition.

➲ "Editing a location's information" → Page 34

Registering a previous location in the Address Book

Once a destination or way point is searched, it is automatically retained and stored in the **Destination History**. If a search is cancelled while still in progress, only the places where the map was displayed and scrolled through or places where the short-cut menu was displayed are retained and stored. Note that after 100 places are stored, new places are automatically overwritten on top of old ones, in oldest to most recent order. Therefore, to ensure that certain places are kept and not overwritten, be sure to register them in the **Address Book**.

1 Touch "Destination" in the Main menu, then touch "Destination History".

2 Touch on the right-hand side of the place you want to register in the Address Book.

:
That place can be registered or deleted.

:
The map of that place can be displayed.

➲ Searching the destination by map ➞ Page 22

3 Touch "Registration".
Registration is now complete.

➲ "Editing a location's information" ➞ Page 34
➲ "**Registration**" in the Shortcut menu ➞ Page 18

Editing a location's information

In the Address Book menu, touching the on the right-hand side of the place displays the Address Book Operate menu.
To edit the information about the location:

1 Touch "Destination" in the Main menu, then touch "Address Book".

2 Touch on the right-hand side of the place whose information you want to edit.

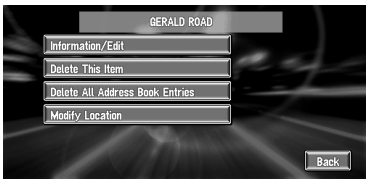
:
The information related to that place can be edited.

:
The map of that place can be displayed.

➲ Searching the destination by map ➞ Page 22

:
Displayed on the left-hand side of places that can be searched by voice command.

3 Touch "Information/Edit".



The Address Information menu appears. Refer to the item corresponding to the subsequent operation. After finishing the operation, the Address Book menu appears. You can continue to edit other information items if necessary.

1. **Name**
   The name can be used as a command for voice operation.
2. **Address**
   The address is registered when the search was made for the first time. (Not editable.)
3. **Phone number**
4. **Pictograph**
   The symbol displayed on the map.
5. **Sound**
   The selected operating sound is played.

❒ Apart from the Address, these items can be edited freely.

Changing a name

1 Touch "Edit Name" and touch "Yes".
The message confirming whether or not to register the entered name as voice command is displayed.

Alternative option :

No :
When not registering a name as a voice command, select "**No**".

2 Enter a new name; touch "OK".
The name of the current location appears in the text box. Delete the current name, and enter a new name between 6 and 23 characters long.

3 If the pronunciation is correct, touch "Yes".

The details you set are registered, and the Address Book menu appears.

Alternative options :

No :
Select to return to the display for entering characters.

Repeat :
You can reconfirm the pronunciation of the name you entered.

❒ When you change the name, a mark is shown on the left side of the location name displayed in the Address Book menu. This mark indicates that this name can be used as a voice command during voice operation.

➲ You can also store locations in the **Address Book** on a PC card ➞ Page 41

❒ You cannot change the name of your home.
❒ During voice operation, you can get a route calculated by saying the registered name.
❒ Information on voice operation ➞ Chapter 5

Entering or changing a phone number

1 Touch "Edit Phone Number".

2 Enter a phone number; touch "OK".
The Address Information menu appears.

❒ To change a registered phone number, delete the existing number and then enter a new one.

Selecting a pictograph to appear on the map

1 Touch "Select Image".

2 Touch the Pictograph to appear on the map.
The Address Information menu appears.

❒ You cannot change the mark of your home or of your favourite location.

Selecting sound

1 Touch "Select Sound".

2 Select the sound.
The Address Information menu appears.
If you want to hear the operating sound, touch .

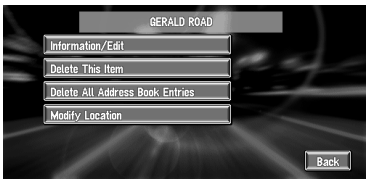
Deleting Address Book or Destination History Information

Items registered in the **Address Book** or **Destination History** can be deleted. Several entries of data can be deleted at once.

1 Touch "Destination" in the Main menu, then touch "Address Book".
To delete items in the **Destination History**, touch "**Destination History**".

2 Touch on the right-hand side of the place you want to delete.

3 Select the deletion method.



A message confirming deletion appears.

Alternative options :
Delete This Item :
Delete the location selected in Step 2.
Delete All Destinations (or Delete All Address Book Entries) :
Delete all the Address Book or Destination History data.

4 Select "Yes".
The data you selected is deleted.

Alternative option:
No :
The display shown in Step 3 appears.

❒ Because deleted data cannot be restored, take extra care not to select "**Delete All Address Book Entries**" by mistake.

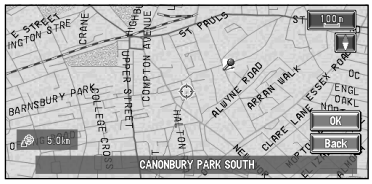
Changing the Position of Locations Registered in the Address Book

You can select a location registered in the **Address Book**, display a map of its surroundings, and change its position.

1 In the Address Book menu, touch on the right-hand side of the place whose position you want to change.

2 Touch "Modify Location".
The map of the selected area and its surroundings appears.

3 Touch the display to change its position, then touch "OK".



The position is changed.

Setting Areas to Avoid

If you register **Areas to Avoid**, such as crowded intersections or congested areas, routes can be calculated that avoid those areas. **Areas to Avoid** can be set from the Route Options menu.

⚠ Caution

If "Areas to Avoid" is set to "Off", route calculation will be performed without considering Areas to Avoid. If you want a route calculation which takes Areas to Avoid into account, set "Areas to Avoid" to "On".

➲ Information on "Areas to Avoid" → Page 49

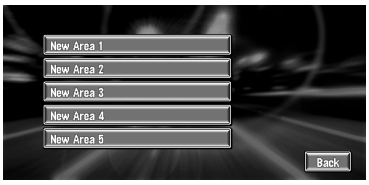
Registering an Area to Avoid

This section describes how to register an Area to Avoid for the first time. You can register up to five Areas to Avoid.

1 Touch "Route Options" in the Main menu, then touch "Areas to Avoid".

2 Select one of the items shown in "New Area".

When registering for the first time, any item on the list is shown as "**New Area**".



3 Select the place to register and display the map.

➲ Searching places to register → Chapter 2

Once a search is complete, a map with the specified location at its centre appears.

4 Change the map scale and decide the size of the Area to Avoid.

The Area to avoid is enclosed in a red frame.

The maximum map scale for registering Areas to Avoid is 100 m (0.1 miles).

5 Scroll the map, adjust the position of the red frame, and touch "OK".

- If you want to stop registration, touch "**Back**".

❒ Depending on the setting of route search conditions, you may not be able to avoid the specified areas. The confirmation message is displayed on the screen at this time.

➲ Information on route calculation conditions → Page 27

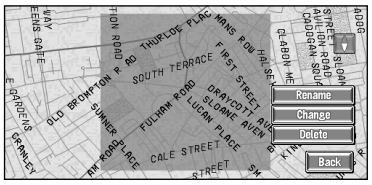
Changing or deleting an Area to Avoid

You can subsequently change/rename/delete an Area to Avoid.

1 Touch "Route Options" in the Main menu, then touch "Areas to Avoid".

2 Select the area you want to change or delete.

3 Select the desired operation.



On this screen, you can select the following options:

Rename :
Changes the name. Enter the new name and touch "**OK**". This returns you to the Route Options menu.

Change :
A specified area can be changed. For the next steps, see Step 2 in the "Registering an Area to Avoid" above.

Delete :
Delete the selected Area to Avoid.

Using Traffic Information

You can check traffic information transmitted by the FM radio service through the Radio Data System (RDS) on the display. Such traffic information is updated periodically. When you receive traffic information about your route, the Navigation System automatically displays a icon informing you of the traffic information. You can also select whether to recalculate the route to avoid a traffic jam. (In this case, route calculation is carried out by considering traffic information within a 150 km (92 mile) radius from your current location.)

Checking traffic information when no route is set

If no route is calculated, you can check the Traffic List by the following operations.

Press **GUIDE** button, Touch TRAFFIC RADIO 2, Touch ⚠

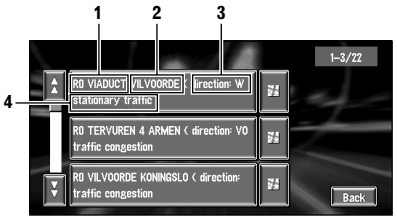
Confirming traffic information relevant to the current route

1 Touch "Information" in the Main menu, then touch "RDS-TMC".

The list of received traffic information is shown.

2 Select events you want to view in detail from the list.

Places (street names) where public events are staged are displayed in the list.



1. Street name
2. Place name
3. Direction to the spot
4. Traffic information

❒ Touching the allows you to check the place on a map. (Traffic information without positional information can not be checked on a map.)

❒ The characters of the event you have already checked the detailed text information will change their colour.

Manipulate the items by the following method.

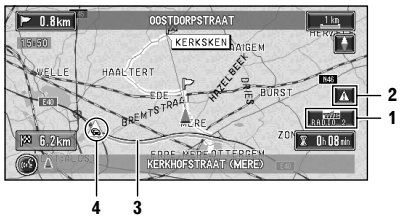
- Touching an event you want to see allows you to view detailed text information about the event. If the information cannot be displayed in one screen, touch ▽ or △ to view the remaining information.

3 Once the information is checked, touch "Back".

A list of traffic information appears.

Confirming traffic information on the map

The traffic-related information displayed on the map is as follows.



TRAFFIC RADIO 2 :

1. Name of the service provider, radio station, etc. or frequency currently being received.
   ➲ Selecting the radio station ➞ Page 40

⚠ :

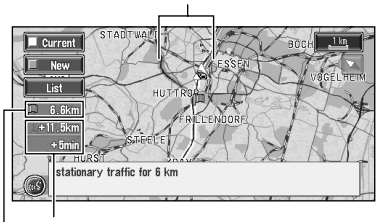
2. Icon to indicate the presence of a new traffic information (within 5 minutes = green, between 5 and 20 minutes = gray, 20 minutes or more, or viewing the Traffic List = not displayed)
3. A line to indicate the length of the traffic jam (displayed only when the scale on the map is 1 km or lower; Congestion: orange, Traffic jam: red, Closure: yellow)
4. Icon for traffic incidents (appears only when the scale on the map is 20 km or lower)

If you want to check traffic information details, move the cross pointer onto the , etc. and touch . This allows you to check place names and other information.

Information on Avoiding Traffic Jam on Route Ahead

If you turn the "**Disp. avoided route**" setting in the Route Options on, when there is a traffic jam on the route you have been given (at least 1 km (0.75 miles) ahead on an ordinary road), the Navigation System automatically searches for a detour.
Then the following display will appear.

The route currently selected ("Current Route" or "New Route")



Difference of distance and travel time (Only when selecting "New Route")

Distance from the current position of your vehicle to the point of entry into the new route.

On this screen, you can select the following items:

New Route :
A new route appears on the screen. The current route is changed to the new route and route guidance is adjusted.

Current Route :
The current route appears on the screen. Returns to the map screen and continues to provide route guidance.

Traffic List :
List of traffic information is displayed.

❒ When no selection is made, the current route will be automatically selected after a short while.

When confirming traffic information manually

Pressing the **GUIDE** button on the remote control for at least 3 seconds or touching the on the screen allows you to check traffic information relating to the route you are being guided along.
If there is any information about a traffic jam on your route, a message appears asking you whether to search for another route to avoid the traffic jam. If there is no traffic information along the route being guided, it is announced on screen and by voice.

If there is a traffic jam on the route

When receiving information about a traffic jam, the message announcing the presence of a traffic jam is indicated. (Voice recognition then becomes available automatically.)
On this screen, you can select the following items:

Yes :
The route is recalculated taking the traffic jam into account.

No :
The message disappears, and the map display reappears.

Traffic List :
List of traffic information is displayed.

If there is no traffic jam information on the route

If there is no traffic jam information, the message informing that there is no traffic jam information on the route, is shown.
On this screen, you can select the following items:

Traffic List :
List of traffic information is displayed.

Back :
Message disappears, and returns to the map screen.

❒ If there is no traffic jam information, the Navigation System does not automatically switch to voice recognition.

Selecting the radio station

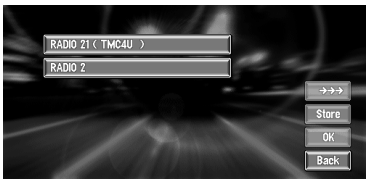
The RDS-Tuner of this unit automatically tunes to the radio station to receive available traffic information. If reception is poor, you can switch to another station manually. Once the receiving radio station is selected, the system automatically tunes to stations that provide traffic information according to the location of the vehicle.

Tuning to a radio station with good reception

1 Touch “Information” in the Main menu, then touch “Manual Station Search”.

2 Touch “Next”.

Available radio stations can be searched automatically. If a radio station with a good reception is found, the tuning mode is stopped.



Alternative option:

Store :

Stores the currently selected radio station on a preset radio station list. If there are already five stations registered on the list, select one to be overwritten by the details of the newly selected radio station.

❒ If you want to continue to search for another station, repeat this procedure.

3 Touch “OK”.

Switches to the selected radio station and returns to the Information menu.

Selecting from pre-registered radio stations

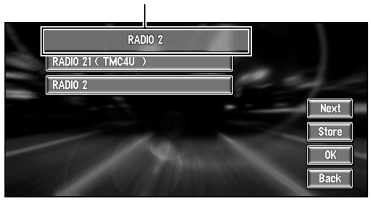
You can pre-select up to five radio stations (Preset Station). From the list of the radio stations, you can select the one you want to receive.

1 Touch “Information” in the Main menu, then touch “Manual Station Search”.

The list of registered radio stations appears. This list of broadcasting stations (Preset Station) cannot be used unless those broadcasting stations have been stored.

2 Select a radio station.

The currently selected radio station



Switching to the specified radio station.

Using a PC Card

You can store the following information on a PC Card:

- Locations registered manually such as your home, your favourite location, or a location whose information was edited (Registered Locations)
- Information on when you travelled, on where you have come from and gone to, and the distance from starting point to destination (Driving Log History)
- Background image when navigation or audio is operated (Background Picture)

❒ The PC card is very useful for sharing the data in the **Address Book** with friends or for storing the data as backup.

Initialising a PC card

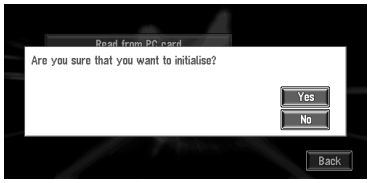
Before using a brand new PC card, you must initialise it.

1 Touch “Information” in the Main menu, then touch “PC card” and “Initialise PC Card”.

❒ Do not stop the engine until initialisation of the PC card is complete.

2 Touch “Yes”.

Once initialisation is complete, a message to select the operation of the PC card automatically appears. (If you want to cancel the initialisation, touch “**No**”.)



Storing the data of registered locations in the PC card

You can select any entry registered in the **Address Book** and store the data on the PC card. Data can be stored in groups. A new group can be created.

❒ The volume of data you can register depends on the capacity of the PC card.

1 Touch “Information” in the Main menu, then touch “PC card” and “Store on PC Card”.

2 Touch the desired item for storage.

The selected entry is marked. To register other locations, repeat this step.

Alternative option:

Select All :
All the locations are selected at once.

3 After finishing the selection of locations, touch “OK”.

4 Touch “New Group”.

❒ If the data is to be stored in a group already registered in the PC card, select the group name in the list.

5 After entering a group name, touch “OK” .

The data of the registered location is stored in the entered group.

Loading registered locations data from a PC card

Address Book data stored on a PC card can be loaded to the Navigation System.

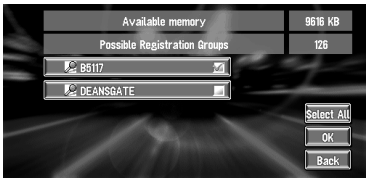
❒ Replaces the Address Book registered place data stored on the System with the registered place data stored on the PC card. At this time, the Address Book registered place data on the System may be lost.

➲ If a message about PC card is displayed → Page 65

1 Touch “Information” in the Main menu, then touch “PC card” and “Read from PC Card”.
The list of groups appears.

2 Touch the desired group.

3 Touch the desired locations.



Selected locations are marked. To load the data from other locations, repeat this step.

Alternative option:
Select All :
All the locations are selected at once.

4 Touch “OK”.
The data of the selected locations is stored in the **Address Book**.

Deleting PC card data

You can delete data for a specified location or a whole group.

1 Touch “Information” in the Main menu, then touch “PC card” and “Delete PC Card Data”.

2 Touch a group where the location you want to delete is stored.

3 Touch a location you want to delete and touch “OK”.
The selected location is marked. To delete other locations, repeat this step.

Alternative option:
Select All :
Select all locations in a group.

4 Touch “Yes”.
The specified location is deleted.

Recording the Driving Information

You can store a journey you actually travelled (known as the "**Driving Log History**") on the PC card. Then you can use a PC to check when you made that journey, and where it was from and to. You can also record whether the driving history was "**Private**" or "**Business**".
The following information is stored as the driving history:

- Information of starting point and end point (date and time, name of the road or latitude/longitude)
- Travelling distance from the starting point to the end point
- The purpose of the journey (Private or Business)

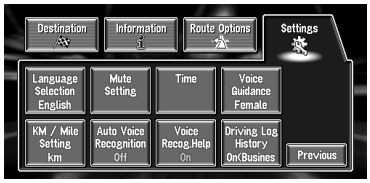
Here, a method of recording driving information is described with an example of recording the driving history as data for business.

- If this function is turned On while driving, driving data is continuously stored on the PC card. If you do not use this function, it is recommended to turn it Off to save space on the PC card.
- If this function is turned On, you can select whether to turn it On (Private or Business) or Off immediately after the Navigation System itself is switched on.
- With this Navigation System, the registered Driving Log cannot be edited.

1 Insert a PC card.

2 Touch "Settings" in the Main menu, then touch "Driving Log History".
After the purchase, the Navigation System is set not to record the tracking. "**Off**" is displayed below "**Driving Log History**", showing that this function is turned currently Off.

3 Touch the "Driving Log History" and select "On(Business)".



Each touch of the "**Driving Log History**" changes the settings as follows:
On(Private) :
Driving history is recorded as private data.
On(Business) :
Driving history is recorded as business data.
Off :
Driving history is not recorded.

4 Press the NAVI button to return to the map of your surroundings.
Once you start the vehicle, recording of the driving history starts.

Driving history data

- PC card data is stored as a text format file. Each file is stored in the "LT" folder of the PC card.
- The first character of the file name represents a type of data. "P" represents Private data, while "B" indicates that it is Business data.

❒ Information from the starting point to the end point is registered as one file. The location where the driving record is turned On/Off becomes the starting/end point. If the setting is left On, the location where the engine was started becomes the starting point of the drive, and the location where the power is turned off becomes the end point. (If the information for the end point cannot be stored properly, an error may occur for a few minutes of driving information data.)

Changing Background Picture

In the menu operation screen, you can indicate a picture you like on the background. Some pictures are already stored, but you can also use pictures (JPEG format data) created by a personal computer or a digital camera. The following two types of background pictures can be changed:

- **AV Background** : Background for the screen during the operation of audio, or during playback.
- **Navigation Background** : Background of navigation menu screen.

Here, a method of changing background picture is described with an example of loading the picture stored on a PC card to the background picture of the navigation.

❒ The "**AV Background**" cannot be used with the AVD-W6210.

❒ When storing original pictures on a PC card, create a folder named "BG" in a PC card, and store the picture files in this folder. Up to 20 picture files can be used in the BG folder.

1 Insert a PC card to the main unit.

2 Touch "Settings" in the Main menu, then touch "Background Picture Setting".

The picture selected at each screen is indicated on the right side of "**AV Background**" and "**Navigation Background**" items.

3 Touch "Navigation Background" or "AV Background".

4 Touch "Import from PC card".

The list of the pictures stored in a PC card is displayed.

On this screen, you can select the following item:

Back to Original :
The picture when purchased is selected.

❒ In step 4, touching other than "**Import from PC card**" allows you to select a background image stored on the disc.

5 Touch a picture you want for the background.

6 Select how to display the picture.

You can select the following items:

"Centre" :
Selected picture is displayed at the centre of the screen.

"Repetition" :
Selected picture is patterned, and displayed as covering the whole screen.

❒ When selecting images already stored on the Pioneer DVD map disc, you cannot select the layout method for those images.

The background image starts changing. After a short while, the new background image appears.

7 Touch "Done".

On this screen, you can select the following items:

Select another Picture :
This is selected when you want to change to another picture. Return to Step 4.

Change to another background :
Select if you want to successively change the Audio Operating screen backgrounds or the Navigation backgrounds. Return to step 3.

❒ Only JPEG format (".jpg" or ".JPG") pictures can be used as a background picture.

❒ You can only use standard characters (alphabets of both cases: A-Z, a-z) and numbers (0-9) for the file name of a background picture (international (accented) characters cannot be used).

❒ Up to maximum 2048×1536 pixels picture can be used. We cannot guarantee a proper operation for a picture bigger than this size.

❒ Progressive format JPEG pictures cannot be used.

❒ When changing a picture starts, do not cut off the vehicle engine until the message informing the completion of changing a picture is indicated. Otherwise a picture file may be destroyed.

- ❒ If a map disc is not set to the Navigation System, the background picture function is not available.
- ❒ When the Navigation System is reset, or the language setting is changed, the background picture may change back to the original picture. (There is also a possibility that the system will revert to the original picture for some other reason). If this happens, set the background picture again.

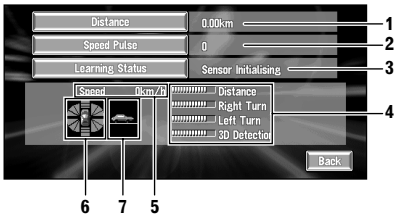
Checking the Navigation Status

The navigation status, including the driving status of a vehicle, positioning status by satellite, learning status of the 3D sensor, and cable connection status can be checked.

Checking sensor learning status and driving status

1 Touch "Information" in the Main menu, then touch "3D Calibration Status".

The 3D Calibration Status screen appears.



1. **Distance**
   Driving distance is indicated.
2. **Speed Pulse**
   Total number of speed pulses is indicated.
3. **Learning Status**
   Current driving mode is indicated.
4. **Degree of learning**
   Learning situations of Distance, Right Turn, Left Turn, and 3D detection are indicated by the length of bars.
5. **Speed**
   Speed detected by this unit is indicated. (This indication may be different from the actual speed of your vehicle, so please do not use this instead of the speedometer of your vehicle.)
6. **Front and back G/Rotational speed**
   Accelerated velocity of your vehicle to front / back direction is indicated. Also, rotational speed when your vehicle turns to left or right is shown.
7. **Inclination**
   Degree of slope of the street is indicated.

To clear values...

If you want to delete the learned results stored in "**Distance**", "**Speed Pulse**" or "**Learning Status**", touch the relevant result, then touch "**Clear**".

❒ This unit can automatically use two types of sensor memory based on the outer dimensions of the tyres.

Checking the connections of leads and installation positions

Check that leads are properly connected between the main unit and the vehicle. Please also check whether they are connected in the correct positions.

1 Touch "Information" in the Main menu, then touch "Connection Status".

The Connection Status screen appears. Either "**OK**" or "**NG**" (or "**No**") appears on the screen, and the connection status of each cable is shown.

1. **Speed Pulse**
   The Speed Pulse value detected by this unit is shown. "0" is shown while the vehicle is stationary.
2. **GPS Aerial**
   Indicates the connection status of the GPS aerial, the reception sensitivity, and from how many satellites the signal is received.
3. **Installation Position**
   The Installation position of the main unit is shown.
4. **Hand brake**
   When the handbrake is applied, "**On**" is displayed. When the handbrake is released, "**Off**" is displayed.
5. **Power Voltage**
   The power supply (reference value) provided from the vehicle battery to this unit is shown. If the voltage does not fall within the range of 11 to 15V, check that power cable connection is correct.
6. **Illumination**
   When the headlights or small lamps of a vehicle are on, "**On**" is displayed. (If the orange/white lead is not connected, "**Off**" appears.)
7. **Back Signal**
   When the gear lever is shifted to "R", the signal switches to "**High**" or "**Low**". (Which of these is displayed depends on the vehicle.)

Chapter 4

Customising Your Navigation System

Modifying the Default Settings

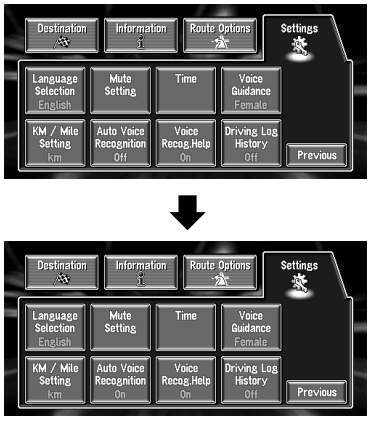
You can tailor default settings such as navigation functions and information display for ease of use. The following example describes how to change settings. In this example, the "**Auto Voice Recognition**" settings is turned on.

1 Touch "Settings" in the Main menu.
The Settings menu appears.

2 Touch "Next".
The screen changes. "**Off**" is displayed below "**Auto Voice Recognition**", indicating that this function is currently turned "**Off**".

- ❒ When you touch items with a setting below them, their setting changes. When you touch items with no setting below them, a setting screen appears.
- ❒ Touching "Next" or "Previous" changes the screen and displays another item.

3 Touch "Auto Voice Recognition".



"**On**" is displayed below "**Auto Voice Recognition**", indicating that "**Auto Voice Recognition**" is set "**On**".
If you want to change another setting, select the item you want to change and repeat the procedure in step 3.

Items Users can Change

This section describes the details of the setting for each item. Settings marked with an asterisk (*) show that they are default or factory settings.

Return Home

➲ Registering and changing your home location → Page 33

Go to

➲ Registering and changing your favourite location → Page 33

Average Speed

When calculating expected time of arrival and the number of hours to the destination, the average speed for the motorway or ordinary road used is set.

- **Motorway**
- When the "**KM/Mile Setting**" is set to "**km**", it can be set in 5-km increments from 60 km to 150 km (120 km*).
- When the "**KM/Mile Setting**" is set to "**Mile**", it can be set in 5-mile increments from 30 miles to 120 miles (80 mile*).

- **Ordinary Road**
- When the "**KM/Mile Setting**" is set to "**km**", it can be set in 5-km increments from 20 km to 110 km (40 km*).
- When the "**KM/Mile Setting**" is set to "**Mile**", it can be set in 5-mile increments from 10 miles to 100 miles (30 mile*).

Modify Current Location

Touch the screen to adjust the current position and direction of the vehicle displayed on the map.

Voice Guidance

You can change the gender of the guidance voice. You cannot change the setting during route guidance, so perform an operation after deleting the route guidance.

➲ Cancelling route guidance ➞ Page 31

Male :
Guidance voice changes to a male voice.
Female* :
Guidance voice changes to a female voice.

Driving Log History

Record driving history on PC card.

On(Private)* :
Driving history is recorded as private data.
On(Business) :
Driving history is recorded as business data.
Off :
Driving history is not recorded.

Demo Mode

This is a demonstration function for shops. After a route is set, the simulation of the route guidance to a destination is automatically displayed. Normally, set this to "**Off**".

On (Repeat) :
Repeat demo drive.
Off* :
Demo Mode is set off.

Day/Night Display

To improve the visibility of the map during the evening, you can change the combination of the colours of the map.

Illuminated* :
You can change the combination of the colours of a map according to whether the vehicle lights are On or Off.

Daytime :
The map is always displayed with bright colours.

Hardware Volume

The sound volume of this product can be set.

Language Selection

➲ The language displayed can be set ➞ Page 57
Once you change the language, installation of the program starts.

⚠ Caution

Once the installation of the program starts, do not stop the engine of your vehicle and switch off the Navigation System until the installation is completed and the map of your surroundings appears.

Mute Setting

Items related to muting of sound volume can be set.

- **Voice Recognition Mute**

This can be set when your Navigation System is combined with the Pioneer Head Unit with a muting function. This setting controls whether the volume of the Pioneer Head Unit is automatically muted during voice operation.

On* :
During voice operation, the volume of the Pioneer Head Unit is muted automatically.
Off :
The volume of Pioneer Head Unit stays the same during voice operation.

❒ If you select "**Off**", the sound from the Pioneer Head Unit may interfere with the voice recognition system.

- **Voice Guide Mute**

This can be set when your Navigation System is combined with the Pioneer Head Unit with a muting function. This setting controls whether the volume of the Pioneer Head Unit is automatically muted during voice guidance.

On* :
During voice guidance, the volume of Pioneer Head Unit is muted automatically,
Off :
Volume of Pioneer Head Unit stays the same during voice guidance.

Auto Voice Recognition

After you have started the engine, turn on voice recognition and set whether or not to perform all operations up to route searching by voice.
(This function is effective only when a route is not set.)

On :
The automatic voice recognition is engaged each time your vehicle is started.
Off* :
Voice operation starts after pressing the TALK button or **VOICE** button.

Background Picture Setting

➲ The background picture can be changed ➞ Page 44

KM/Mile Setting

This setting controls the unit of distance displayed on your Navigation System.

km * :
Show distances in kilometres.
Mile :
Show distances in miles.
Mile & Yard :
Show distances in miles and yards.

Map Display

Screen display-related items can be set.

- **Arrow in AV**
  Set whether to display the guidance information by arrow on the Audio Operation screen of the Pioneer AV Head Unit.

❒ Can be used only when the AVH-P7500DVD or AVH-P6500DVD is connected.

On* :
Display guidance information by arrow on the Audio Operation screen.
Off :
Do not display guidance information by arrow on the Audio Operation screen.

- **Current Time**

This setting controls whether to display the current time on the screen.

On* :
The current time is shown.
Off :
The current time is not shown.

- **Tracking Display**

The tracking display setting has following options.

On (Always) :
Display tracking for all journeys.
On (This journey) :
Display tracking dots but erase them when the navigation system is turned off (when turning off the engine of your vehicle).
Off* :
Do not display tracking dots.

- **Areas to Avoid**

This setting activates Area to Avoid being set.

On* :
Areas to Avoid are displayed on the screen, and these areas are avoided as much as possible during route calculation.
Off :
Areas to Avoid are not indicated, and are not taken into account during route calcutation.

⚠ Caution

When "Areas to Avoid" is turned "Off", Area to Avoid will not be considered during route calculation. If you want a route calculation while avoiding some areas, change the setting to "On".

- **AV Guide Mode**

Setting whether or not to switch to navigation screen automatically when the navigation guidance voice is played while displaying a screen other than navigation.

On* :
Switching from audio operation screen to navigation screen.
Off :
Screen is not switched.

- **Close-up of Junction**

This setting enables to switch to an enlarged map around the point when your vehicle is approaching to an intersection, entrance/exit of motorway, or a junction.

On* :
Display switches to an enlarged map.
Off :
Does not switch to an enlarged map.

Voice Recog.Help

This setting controls the list of available voice commands displayed during voice operation.

On* :
The list of commands is shown.
Off :
The list of commands is not shown.

Time

Adjusts the systems clock. The time difference (+, –) between the time originally set in this unit is set here.
You can also select summer time On/Off.

➲ Time settings ➞ Page 58

On :
Summer time is taken into account.
Off* :
Summer time is not taken into account.

❒ When the period of summer time comes, or when the summer time ends, this unit does not automatically change the summer time setting.

➲ Change the summer time setting ➞ Page 58

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Chapter 5

Operating Your Navigation System with Voice

Basics of Voice Operation

Your Pioneer Navigation System comes with the latest in voice recognition technology. You can use voice commands to operate many of its functions. This chapter describes where you can use voice commands, and also what commands the system accepts.

Flow of voice operation

You can start voice operation any time even when the map screen is displayed or audio is operated. The basic steps of voice operation are as follows. The steps are almost the same as when using the Remote Control.

1 Press the TALK (or VOICE) button to activate voice operation.

⬇

2 Speak a command into the microphone.

⬇

3 When the command is recognised, it is repeated.

⬇

4 As necessary, repeat Steps 2 and 3.

⬇

5 The voice command is carried out.

❒ With the “CD-SR80” Steering Remote Control (sold separately), you can press the BAND button and the F button to switch on the operation mode of the Steering Remote Control. When the operation mode is switched on, by pressing the BAND button of the Steering Remote Control, you can activate voice operation, which is equivalent of pressing the TALK button. (“CD-SR90” and “CD-SR100” can be used. For the details of their operation, see the instruction manuals attached to them.)

Operating by only voice when the Navigation System is started

Turning on “**Auto Voice Recognition**” in the Settings menu allows all settings to be implemented by voice from after the engine is started and until the route is set (applies only if the route is not yet set).

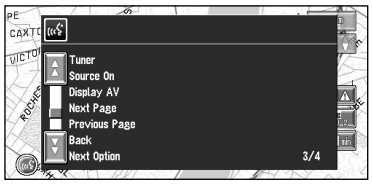
❒ If you press the button on the Remote Control in the middle of the operation, voice operation mode is cancelled.

Available voice commands related to Navigation

You can say the following commands:

Common commands for all the operations

Next Page, Previous Page, Back, Next Option, Repeat



❒ If you want to listen to the message of the Navigation System, say “Repeat”.

❒ If you want to return to the previous screen, say “Back”.

❒ If the system fails to recognise the command you speak, press the TALK button or **VOICE** button or say “Next option” and other operable commands will be displayed. If you then press the TALK button or **VOICE** button within 3 seconds, yet more commands are shown. Repeat this until the command you want to use is shown.

Specifying your destination
New Destination, Address Book, Return Home, <Registered name>, Restaurants, Shopping, Hotel, Petrol Station

Operating the route being guided
Reroute, XX kilometre(s)/mile(s) detour, Cancel Route, Cancel Way Point, Traffic List, Route Profile, Use/Avoid Motorway, Use/Avoid Ferry, Use/Avoid Tollroad, Fastest Route, Shortest Route, Avoid TMC

Changing map display
Street Map, City Map, Region Map, Driver's View, Map Mode, Street List Mode, Mixed Mode, Overlay Points Of Interest, Cancel Overlay POI

Available voice commands related to audio

- ❒ When the AVD-W6210 is connected, only NAVI Source-related commands can be used.
- ❒ When you use the AVIC-8DVD, AVIC-8DVDII, or AVIC-800DVD, NAVI Source-related commands cannot be used.

Common to each source
CD Player, Tuner, CD Changer, Navigation Audio, DVD Changer, Monitor DVD, D.V.D Video, Digital Radio, Television, Video In, Auxiliary, Source On, Source Off, Display Navi, Display AV, Next Page, Previous Page, Back, Repeat

For TUNER source
Preset Station 1-6, Start BSM, Change Band

For CD source
CD Track 1-20, Repeat Play, Random Play

For Multi-CD (M-CD) source
CD Track 1-20, Random Play, Disc 1-12, ITS Play

For DAB source
Preset Station 1-6

For TV source
Preset Station 1-12, Start BSSM

For DVD (M-DVD) source
Random Play, Disc 1-6, ITS Play

For NAVI source
CD Track 1-20, Repeat Play, Random Play

- ❒ Some commands may be cancelled according to the condition of audio unit being combined.

Scrolling through the Voice Help Menu

Scroll through the remaining commands using the scroll bar or the remote control. You can also display the commands by saying the words "Next page" (or "Previous page").

To cancel voice operation

You can cancel voice operation features at any time by pressing the **NAVI** button on the Remote Control. After you cancel voice operation, the map is displayed.

- ➲ When you are used to voice operation features and no longer need Voice Help, you can it off ➞ Page 50

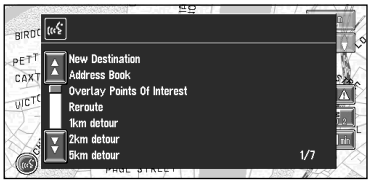
An example of voice operation

In this example, you want to search for the nearest city hall. When presented with a list of search options, you say the number to the left of the option you want to select.

1 Press the TALK button or VOICE button.
A list of commands for voice operation appears. After the message, the beep indicates that the system is ready to accept your voice command. You say a command after this beep.

If you are not used to voice operation

Until you are familiar with this system, it is recommended to stop the vehicle in a safe place and refer to the commands displayed in the Voice Help menu (a list of the words you can speak). When your vehicle is parked with the handbrake on, press the TALK button or **VOICE** button to display a list of available voice commands (Voice Help menu). Display of the Voice Help menu can be turned on /off with "**Voice Recog.Help**" in the Settings menu.

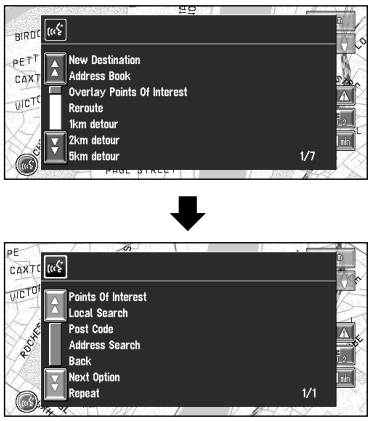


When voice command is possible

When voice command is not accepted

- If no command is made in the next 6 seconds, voice recognition is cancelled and the Navigation System is on hold until the next operation. Press the TALK button or **VOICE** button to reactivate voice operation.

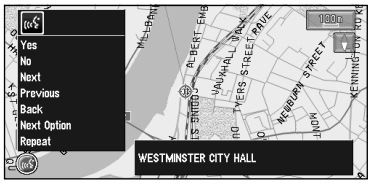
2 Say "New Destination".
A message to prompt the next operation is given.



3 Say "Local Search".
You say the contents you want to operate. Here, selection method of your destination is specified. When you want to search the petrol station nearest to the current location, say "Local Search".

4 Say "City Hall".
The map of the nearest city hall is shown. The message, "Do you want to stop in?" follows.

5 After confirming the location, say "Yes".

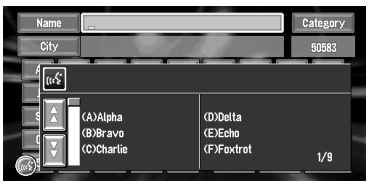


With the location shown on the map set as the destination (or way point), the route calculation starts.

- If you want to see maps with other options, at Step 5 say "Next" (or "Previous").
- If you say "No", voice operation is cancelled, and the map screen appears.

To spell out characters and symbols

When entering city names, names of POIs, or post codes, speak one character at a time. For example, if you want to enter “A”, say “Alpha”.



	Pronunciation		Pronunciation
1	One	N	November
2	Two	O	Oscar
3	Three	P	Papa
4	Four	Q	Quebec
5	Five	R	Romeo
6	Six	S	Sierra
7	Seven	T	Tango
8	Eight	U	Uniform
9	Nine	V	Victor
0	Zero	W	Whiskey
A	Alpha	X	X Ray
B	Bravo	Y	Yankee
C	Charlie	Z	Zulu
D	Delta	_	Space
E	Echo	-	Hyphen
F	Foxtrot	‘	Apostrophe
G	Golf	&	And
H	Hotel	/	Slash
I	India	.	Full stop
J	Juliet	,	Comma
K	Kilo	$	Dollar
L	Lima	+	Plus
M	Mike	“	Quotation mark

❒ Touching any area of the screen during the voice input mode will switch to the text input screen. To return to the voice input mode, press the **VOICE** button on the text input screen.

To finish the entry by spelling and to make the Navigation System display a list of options

To finish entry of the spelt-out name of a city, POI, or post code, say “Verify”. A list of relevant items is displayed. Saying the number displayed on the left of the item displays a map of the selected place on the screen, along with a confirmation voice message. Replying “Yes” starts a route calculation of the place displayed as the destination (or way point) on the map.

❒ If no possible item is found, the display returns to the previous page.

❒ If you want to see the maps with other options, say “Next Option”.

❒ If you say “No”, the map of that place can be displayed. If you perform other operations instead of touching the “**Back**”, voice operation is cancelled.

➲ Searching the destination by map → Page 22

❒ If there are so many items to list, “1/**” is displayed.

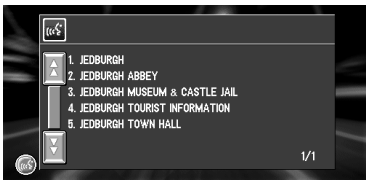
1 After inputting some characters, say “Verify”.

A list of items matching the entry appears. Each item has a matching number on the left.

❒ If all items cannot be shown on one screen, say “Next Page” to display the following page. Say “Previous Page” to return to the previous page.

❒ If no possible item is found, the display returns to the previous page.

2 Say the number of the item you want.



The map of the selected location appears on the display. The message, “Do you want to stop in?” follows.

Tips for Voice Operation

For your voice commands to be correctly recognised and interpreted, ensure that conditions are suitable for recognition.

Reduce the volume setting on your car audio system

- ➲ If your Pioneer Head Unit has a Mute lead, the sound volume of the Head Unit is automatically reduced during voice operation ➞ Page 48
- ❒ Some Pioneer Head Unit models have a Mute control function. For further details, refer to the manual for that model.

Close the vehicle windows

Please note that wind through the car window or miscellaneous noise from outside the vehicle can interfere with voice operation.

Position the microphone carefully

For optimum pick-up, the microphone should be fixed at a suitable distance directly in front of the driver.

Pause before giving a command

Speaking too soon may cause the recognition to fail.

Pronounce your commands carefully

Speak slowly, deliberately and clearly.

CRB1881A_ENGLISH.book Page 56 Thursday, April 24, 2003 11:54 AM

Appendix

Installing the Program

The program is installed to the main unit of the Navigation System using the disc sold separately. This is not necessary if your dealer already performed the installation.
When installing the program, you carry out the following operations. When all the setup procedures are completed, the map of your surroundings appears, and you can use the Navigation System.

1 Insert the disc while the vehicle is parked.

⬇

2 Select the language used for the Navigation System.

⬇

3 Setting the clock.

⚠ Caution

Users of the AVIC-9DVD, AVIC-9DVDII, AVIC-8DVD, or AVIC-8DVDII who upgraded to a more recent version using the version upgrade disc (CNDV-30) cannot return to their pre-upgrade version. You should also note that you can no longer use the discs included in the set of this Navigation System.

1 Park your vehicle in a safe place.
Leave the engine on, and make sure that the handbrake is on.

2 Insert the disc to the main unit of the Navigation System.
When upgrading from AVIC-9DVD, AVIC-9DVDII, AVIC-8DVD, or AVIC-8DVDII, installation of the version upgrade program starts immediately.

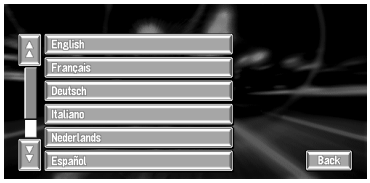
⚠ Caution

Once the installation of the program starts, do not stop the engine of your vehicle and switch off the Navigation System until the installation is completed and the map of your surroundings appears.

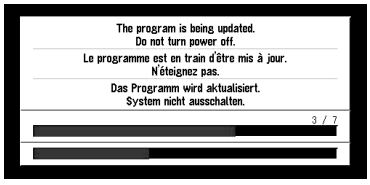
3 Touch "Yes/Oui/Ja".
When you start this unit for the first time, the message confirming if you select another language.
English is the default language of the Navigation System. If desired, you can select another language is shown.

- ❒ To keep English, touch "**No/Non/Nein**". After this, proceed to Step 5.
- ❒ When you want to select another language, touch "**Yes/Oui/Ja**", and proceed to the next step.

4 Select the language from the list.
Touch the language you want to use.



Installation of the program, in the language you chose, begins.


The program is being updated.
Do not turn power off.
Le programme est en train d'être mis à jour.
N'éteignez pas.
Das Programm wird aktualisiert.
System nicht ausschalten.
3 / 7

When the installation is complete, the opening display appears.

⬇

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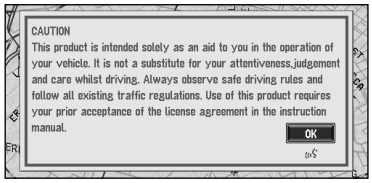
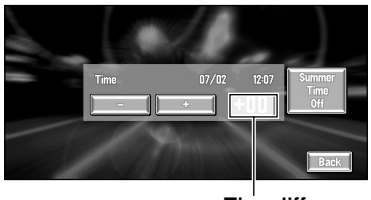
5 Check the details of the cautionary message and touch "OK".

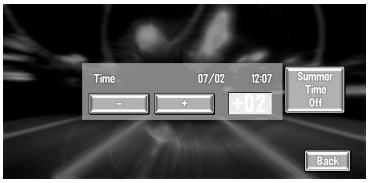

CAUTION
This product is intended solely as an aid to you in the operation of your vehicle. It is not a substitute for your attentiveness,judgement and care whilst driving. Always observe safe driving rules and follow all existing traffic regulations. Use of this product requires your prior acceptance of the license agreement in the instruction manual.
OK

6 To set the time difference, touch "+" or "–".



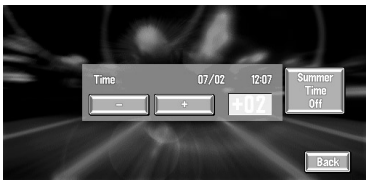
Time difference

The time difference between the time originally set in this unit (Central European Time) and the current location of your vehicle is shown. If necessary, adjust the time difference. Touching "**+**" or "**–**" changes the time difference display in one-hour increments. The time difference can be set from +3 to –3 hours.

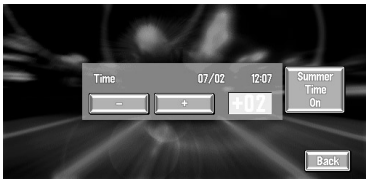


7 If necessary, set to summer time.

Summer time is off by default. Touch "**Summer Time**" to change the time if you are in the daylight saving period. This turns the display below Summer Time "**On**".



8 To complete the setting, touch "Back".



The map of your surroundings appears.

This completes the setup of your Navigation System. Chapter 1 explains the basic operation of your Navigation System.

➲ To change the language and time later ➞ Chapter 4.

Appendix

Combining and Using Pioneer AV Equipment

To Ensure Safe Driving

⚠WARNING

- **To avoid the risk of an accident and the potential violation of applicable laws, this product is not for use with a video screen that is visible to the driver.**
- **In some countries or states the viewing of images on a display inside a vehicle even by persons other than the driver may be illegal. Where such regulations apply, they must be obeyed.**

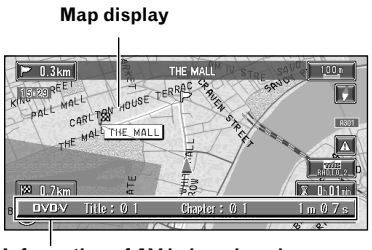
Characteristics of the Navigation System when combined with Pioneer AV Head Unit

When this product is combined with a Pioneer AV Head Unit (AVH-P7500DVD or AVH-P6500DVD), you can use the Navigation screen to confirm information on the audio equipment being played or you can use the Pioneer AV Head Unit's Audio Operation screen to confirm route guidance information. Also, you can use the Pioneer AV Head Unit to select the built-in DVD player of the Navigation System as a "NAVI Source". (Navigation unit that cannot play DVD-Videos or CDs on the built-in DVD-ROM drive cannot be selected as a source.)
When you approach an intersection with the Audio Operation screen displayed, an enlarged map of the intersection appears. When you have passed through the intersection, the display reverts to the Audio Operation screen.

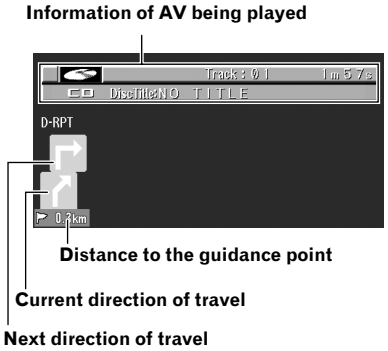
➲ You can also operate audio equipment by voice ➞ Chapter 5

❒ When AVD-W6210 is connected, you cannot operate audio equipment by voice.

(example) Navigation screen



(example) Arrow display on CD screen



❒ If you want to operate the Navigation System while the enlarged intersection map is displayed, press the **NAVI/AV** button on the display to switch to the navigation map.

❒ When pushing the display's **NAVI/AV** button with the map disc inside the Navigation unit, the NAVI source screen may show "DISC DATA READING" or may be blank.

➲ The Arrow display or enlarged intersection map display can be turned on or off ➞ Page 49

➲ NAVI Source ➞ "Switching the source" of the Pioneer AV Head Unit combined with the product.

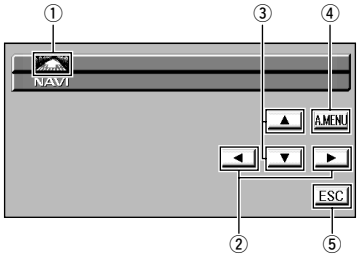
➲ For the connection methods ➞ see the installation manuals of AV equipment, or consult the shop or dealer where you purchased the product.

When resetting AV Head Unit

When pressing the reset button of AV Head Unit while Navigation System and AV Head Unit are combined, make sure that ACC (ignition) is tuned OFF. If the reset button is pressed while ACC (ignition) is ON, it may not work properly.

Touch Panel Operation When Using NAVI Source

When the system is combined with the Pioneer AV Head Unit (AVH-P7500DVD or AVH-P6500DVD), if you use the built-in DVD player to play a DVD-Video or CD when using the NAVI Source, the operation buttons are displayed on the screen and a few limited operations can be performed.



(ex. When AVH-P6500DVD is connected)

① Switching the source
② During DVD playback : Forwarding/ rewinding the chapter.
During CD playback : Forwarding/rewinding the track.
③ During DVD playback: Title up/down.
During CD playback: Not used.
④ Displaying the audio menu. For details, refer to the Pioneer AV Head Unit's Operation Manual.
⑤ Cancelling the operation buttons.

❒ When the AVD-W6210 is connected, the operation buttons are not displayed.

Cautions When Connecting a Rear Display to the Front Display

When combining a rear display with the front display, you can use the front display settings to select whether to display the images of the sources or navigation screen on the rear display.

➲ Switching the rear display → the manual for the display you are combining.

Vehicles that Cannot Obtain Speed Pulse Data

❒ The speed pulse data comes from the speed sensing circuit. The location of this speed sensing circuit depends on your vehicle model. In some cases, it is impossible to make a connection to it, and in such a case we recommend that the ND-PG1 speed pulse generator (sold separately) be used.

Conditions Likely to Cause Noticeable Positioning Errors

For various reasons such as the state of the road you are travelling on and the state of reception of the GPS signal, the actual position of your vehicle may differ from the position displayed on the map screen.

Some types of vehicle may not output a speed signal while driving at just a few kilometres per hour. In such a case, the current location of your vehicle may not be displayed correctly while in a traffic jam or in a car park.

Troubleshooting

If you have problems operating your Navigation System, refer to this section. The most common problems are listed below, along with likely causes and solutions. While this list is not comprehensive, it should answer your most common problems. If a solution to your problem cannot be found here, contact your dealer or the nearest authorised Pioneer service facility.

You cannot position your vehicle on the map or the positioning error is large.

Possible causes:

(1) The quality of signals from the GPS satellites is poor, causing reduced positioning accuracy.
Such a loss of signal quality may happen for the following reasons:
- The GPS aerial is in an unsuitable location.
- Obstacles are blocking signals from the satellites.
- The position of satellites relative to your vehicle is bad.
- Signals from the GPS satellites have been modified to reduce accuracy. (GPS satellites are operated by the US Department of Defense, and the US government reserves the right to distort positioning data for military reasons. This may lead to greater positioning errors.)
- If a vehicle phone or cellular phone is used near the GPS aerial, GPS reception may be lost temporarily.
- Do not cover the GPS aerial with spray paint or car wax, because this may block the reception of GPS signals. Snow buildup can also degrade the signals.

(2) Signals from the vehicle's speed pulse are not being picked up properly.

(3) The main unit may not be mounted securely in your vehicle.

(4) Your vehicle is operating in Simple hybrid mode.

(5) Setting of the Installation direction lever is wrong.

(6) Main unit is installed with an extreme angle exceeding the limitation of the installation angle.

(7) Indication of the position of your vehicle is misaligned after a U-turn or reversing.

Solutions:

(1) Check the GPS signal reception (→ Page 46) and the position of the GPS aerial if necessary, or continue driving until reception improves. Keep the aerial clear.
(2) Check that the cables are properly connected. If necessary, consult the dealer that installed the system.
(3) Check that the main unit is securely mounted and, if necessary, consult the dealer that installed the system.
(4) Connect the speed signal input (pink lead wire) of the power cable correctly, and reset the 3D Hybrid Sensor ("**Learning Status**").
(5) Check the installation position of the main unit of your Navigation System and the setting of the Installation direction lever (→ "Installation Manual").
(6) Confirm the installation angle. (This unit must be installed within +30 degrees to -15 degrees of the horizontal, or within five degrees of your vehicle's direction of travel.)
(7) Check whether or not the reverse gear signal input lead (purple) is connected properly. (The Navigation System works properly without the lead connected, but positioning accuracy will be adversely affected.)

The map continually reorients itself.

Possible causes:

The display is set to "Heading Up".

Solutions:

Check the settings (→ Page 20) and change the setting to "North Up".

Tracking marks are not displayed.

Possible causes:

The "**Tracking Display**" is turned off.

Solutions:

Check the "**Tracking Display**" settings (→ Page 49) and make sure "**On (Always)**" or "**On (This journey)**" is selected.

The daylight display is used even when the vehicle lights are on.

Possible causes:

(1) "**Daytime**" is selected on "**Day/Night Display**".
(2) The Orange/white lead is not connected.

Solutions:

(1) Check the "**Day/Night Display**" setting (→ Page 48) and make sure "**Illuminated**" is selected.
(2) Check the connection.

The system will not switch on or will not operate.

Possible causes:

Installation or connection has been carried out incorrectly.

Solutions:

Check with your dealer.

The display is very dim.

Possible causes:

(1) The vehicle's light is turned ON, and "**Illuminated**" is selected on "**Day/Night Display**".
(2) The vehicle cabin temperature is extremely low.

Solutions:

(1) Read about the "**Day/Night Display**" setting (→ Page 48) and, if desired, select "**Daytime**".
(2) A Liquid Crystal Display (LCD) is used, and such displays tend to darken when cold. Wait for the vehicle to warm up.

There is no voice guidance or the volume is low.

Possible causes:

The volume setting is low.

Solutions:

Check the volume setting on the display or turn the volume up according to "**Hardware Volume**" (→ Page 48) and/or turn up the volume on the display.

The Remote Control fails to work.

Possible causes:

(1) The batteries are low.
(2) The batteries have been inserted incorrectly.
(3) The Remote Control is pointing at the floor or a seat.
(4) The signal receptor on the display is exposed to direct sunlight.

Solutions:

(1) Change the batteries.
(2) Check that the batteries are properly inserted according to the + and – markings.
(3) Ensure that the Remote Control has a clear line of sight to the display unit.
(4) Move the Remote Control closer to the receiver on the display unit.

When the screen is frozen...
Park your vehicle at a safe place, and cut the engine off. Turn the ignition key back to "Acc off". Then start the engine again, and turn the power to the main unit back on. If this does not solve the problem, press the reset button on the main unit.

Messages and How to React to Them

The following messages may be displayed by your Navigation System.

❒ There are occasions when you may see error messages other than those shown here. In such a case, follow the instructions given on the display.

(1) "You cannot use this function while driving."

When:
While trying to make a menu selection.

What to do:
Pull over and come safely to a halt, put the handbrake on, and then try again.

(2) "This is not the appropriate disc. Please insert the appropriate disc."

When:

(1) If you try to use a disc which is incompatible with this system (including the old version map disc).
(2) If you insert a disc upside down.
(3) If the disc is dirty.
(4) If the disc is cracked or otherwise damaged.

What to do:

(1) Insert a suitable disc.
(2) Insert the disc with the label upward.
(3) Clean the disc.
(4) Insert a normal, round disc.

(3) "Irregular speed pulse signal is detected. Please turn system power off and check the installation. After checking, please re-boot the system and press "OK"."

When:
If the Navigation unit does not receive the vehicle speed pulse.

What to do:
Consult your Pioneer dealer.

(4) "Speed pulse wire is not connected. Please be sure to connect the system to the speed pulse wire. Accuracy is not fully ensured without speed pulse."

When:
The speed signal input (pink lead wire) of the power cable is not connected.

What to do:
To operate with 3D hybrid mode, connect the speed signal input (pink lead wire) of the power cable correctly. Although it can be operated with Simple hybrid mode without connecting the speed signal input, the precision of the positioning will be less accurate.

(5) "Vibration is detected. Please turn the system power off and check the installation. After checking, please re-boot the system and press "OK" ."

When:
While the car is stationary, the Navigation System is installed in a place where the main unit may be affected by a large vibration.

What to do:
Re-install the main unit of the Navigation System in a place where the main unit will not be affected by vibration.

(6) "Direction of G sensor is not correct. Please turn the system power off and check the installation. After checking, please re-boot the system and press "OK" ."

When:
Direction of G sensor is set incorrectly.

What to do:
See the "Installation Manual" and set the direction of G sensor correctly.

(7) "Gyro Sensor is not working properly. Please consult your dealer or Pioneer service center."

When:
Abnormal output of Gyrosensor is detected.

What to do:
Note down the error code shown on the screen; turn off the power, and then contact your nearest Pioneer service facility.

(8) "Your route could not be found."

When:
If the distance to the destination is too far and cannot be set.

What to do:
Change the destination to a location that is closer and divide up the route.

(9) "Your journey can not avoid the specified area."

When:
If route setting cannot avoid specified Areas to Avoid.

What to do:
Choose whether or not to try setting a route through the area.

(10)"Memory is full."

When:
If there are already 300 items when you attempt to register an item in the **Address Book**.

What to do:
Delete some destinations as appropriate.

(11)"Memory is full."

When:
When there is no more free space in the PC card.

What to do:
Delete unnecessary data.

(12)"Irregular character strings. Please input again."

When:
A symbol that cannot be pronounced was entered.

What to do:
Enter a word that can be pronounced.

(13)"An error has occurred. Please note the following error code and switch power off."

When:
In the case of a system failure.

What to do:
Note down the error code shown on the screen; turn off the power, and then contact your nearest Pioneer service facility.

(14)"DVD Player is overheating. Discontinue until temperature drops."

When:
The DVD-ROM drive has overheated.

What to do:
Cut the power off, and wait for a while before turning the power on again.

(15)"DISC DATA READING"

When:
With the map disc inside the Navigation unit, the NAVI source screen has been displayed by pressing the display's **NAVI/AV** button.

What to do:
Select any other source besides "NAVI SOURCE", or press the display's **NAVI/AV** button to switch to the Navigation map.

If a message about the PC card is displayed

- If there is no more space on the PC card or 300 items of data are already stored in one group, either delete unnecessary data or create a new group.
- If the data read from the PC card combined with the data registered in the **Address Book** exceeds 300 items, either delete unnecessary data or reduce the amount of data read from the PC card.
- If there is no more space on the PC card when the "**Driving Log History**" is on, use your own PC to delete unnecessary data.

Route Setting Information

Route search specifications

Your Navigation System sets a route to your destination by applying certain built-in rules to the map data. This section provides some useful information about how a route is set.

⚠ Caution

When a route is calculated, the route and voice guidance for the route is automatically set. Also, for day or time traffic regulations, only information about traffic regulations at the time when the route was calculated is shown. For example, if a street is open during the morning only, but you arrive later, it would be against the traffic regulations so you cannot drive along the set route. When driving, please follow the actual traffic signs. Also, the system may not know some traffic regulations.

About the route condition

When the calculation of only one route is set, you can search a route option by combining the following conditions.

➲ How to set the calculation conditions ➞ Page 27

For example, when "**Shortest**" and "**Avoid Motorway**" ("**On**") are combined, the route, which avoids motorway, and has the shortest travel time, will be calculated and displayed on the screen.

Condition 1 :whether to put priority on the distance, or time

Shortest :
Calculate a route with the shortest distance to your destination as a priority.

Fastest :
Calculate a route with the shortest travel time to your destination as a priority.

Condition 2 :whether to use motorway or not

Avoid Motorway :
Calculate a route that avoids motorway. (A route using the motorway may be set if your destination is far away.)

- The system assumes the driver deviated either intentionally or inadvertently from the route and searches for another route (intelligent rerouting). Depending on the situation, the system may search a new route that does not return to the original one.
- The calculated route is one example of the route to your destination decided by the Navigation System whilst taking the type of streets or traffic regulations into account. It is not necessarily an optimum route. (In some cases, you may not be able to set the streets you want to pass. If you want to pass a certain street, set the way point on that street.)
- The route set by your Navigation System is based on the assumption that the driver does not know the area. Thus, the streets known to local drivers, such as small streets or special roads, may not be used for the set route.
- Some route options may become the same route. If visiting points are set, or the route is set by voice operation, only one route is calculated.
- Route setting is limited to the range of the disc in use.
- The destination is too far, there may be instances where the route cannot be set. (If you want to set a long-distance route going across several areas, set way points along the way.)
- During voice guidance, turns and junctions from the motorway are announced. However, if you pass junctions, turns, and other guide points in rapid succession, some may not be announced.
- It is possible that guidance may direct you off a motorway and then back on again.
- In some cases, the set route may require you to travel in the opposite direction to your current heading. In such cases, you are instructed to turn around, so please turn around safely by following the actual traffic rules.
- In some cases, guidance may direct you past your destination and then indicate a U-turn to get back to it.
- In some cases, a route may begin on the opposite side of a railway or river from your actual current location. If this happens, drive towards your destination for a while, and try route calculation again.
- In the following cases, the route that passes through an Area to Avoid may be set:
  - when your vehicle is in the Area to Avoid
  - when your destination or way points are in the Area to Avoid
  - when it is not possible to avoid doing so
- If a suitable route cannot be set in compliance with the specified “Detour” distance, or your preference to avoid motorways, toll roads, ferry route, the setting or parameter may be ignored.
- When there is a traffic jam ahead, if driving through the traffic jam is better than taking the detour, a detour route may not be set.
- There may be instances when the starting point and the destination point are not on the highlighted route.
- The number of roundabout exits displayed on the screen may differ from the actual number of roads.
- “**Auto Reroute**” function does not work in the following cases:
  - when your car is not on a street
  - when your car is on a ferry
  - when driving on a road inside a facility
  - when driving on a roundabout

Route highlighting

- Once set, the route is highlighted in bright green on the map.
- The immediate vicinity of your starting point and destination may not be highlighted, and neither will areas with particularly complex road layouts. Consequently, the route may appear to be cut off on the display, but voice guidance will continue.

Intersection enlargement

- When “**Close-up of Junction**” is on, the map scale increases to show more detail as you approach an intersection.
- If the intersection is approached in a gentle curve, the map displayed may differ from the actual road layout.

Tracking

- Your Navigation System marks your course on the map in certain increments. This is called tracking. It is handy when you want to check a route travelled without guidance or if returning along a complex route.
- A maximum of about 230 km (145 miles) is marked and, as you travel beyond this limit, tracking marks are erased in order from the most distant. Tracking display shows about 200km tracking of your vehicle with a white dots. When your vehicle speed is under 5km/h (3mile/h), the dots are red. When your vehicle speed is more than 5km/h (3mile/h), but less than 20km/h (12mile/h), tracking shows in orange dots.

➲ Tracking can also be set for automatic erasing whenever the Navigation System is switched off → Page 49

About traffic information

- Because the information is updated only periodically, it may take time to collect all the information.
- Not all RDS stations provide traffic information.
- Instead of the broadcasting station name appearing, the name of the service provider or the music being played may be displayed. The information content depends on the information of the sender of the transmission.
- Traffic information is not taken into account in calculating estimated time of arrival time or travel time for your destination.
- This product may not be able to receive traffic information in some areas.

> - Pioneer does not bear responsibility for the accuracy of the information transmitted.
> - Pioneer does not bear responsibility for changes to information services provided by broadcasting stations or by related companies, such as cancellation of the services or changing to pay-services. Also, we do not accept return of the product for this reason.

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Glossary

This glossary explains some of the terms used in the manual.

3D Hybrid sensor
The built-in sensor which enables the system to estimate your vehicle's position. A learning function increases its accuracy and two sets of learning data can be stored in memory.

Address Book
A list of previously searched destinations, way points and locations registered manually.

Current location
The present location of your vehicle; your current location is shown on the map by a red triangle mark.

Default setting
A factory setting which applies when you first switch on the system; you can change default settings to suit your own needs in the Route Options menu or the Settings menu.

Destination
A location you choose as the end point of your journey.

DVD-ROM
A disc used to store data.

Favourite location
A frequently visited location (such as your workplace or a relative's home) that you can register to allow easy routing.

GPS
Global Positioning System. A network of satellites that provides navigation signals for a variety of purposes.

Guidance mode
The mode in which guidance is given as you drive to your destination; the system automatically switches to this mode as soon as a route has been set.

Guidance point
These are important landmarks along your route, generally intersections. The next way point along your route is indicated on the map by the yellow flag icon.

Home location
Your registered home location.

Menu
A list of options shown on the display; choices are selected touching the display.

PC card
Card-type peripheral equipment mainly used for personal computers. The Navigation System can use a memory card to store data.

Point of Interest (POI)
Point Of Interest; any of a range of locations stored in the data, such as railway stations, shops, restaurants, and amusement parks.

RDS-TMC
A communication system for informing drivers of the latest traffic information using FM multiplex broadcast. Information such as traffic jams or accidents can be checked on the display.

Remote Control
The remote control unit for the system (→ Chapter 1 of the "Hardware Manual").

Route setting
The process of determining the ideal route to a specific location; route setting is done automatically by the system when you specify a destination.

Set route
The route marked out by the system to your destination. It is highlighted in bright green on the map.

Tracking
Marks on the map indicating the route you have travelled.

Voice guidance
The giving of directions by a recorded voice while in guidance mode.

Voice recognition
The technology that allows the system to understand the driver's voice commands.

Way Point
A location that you choose to visit before your destination; a journey can be built up from multiple way points and the destination.

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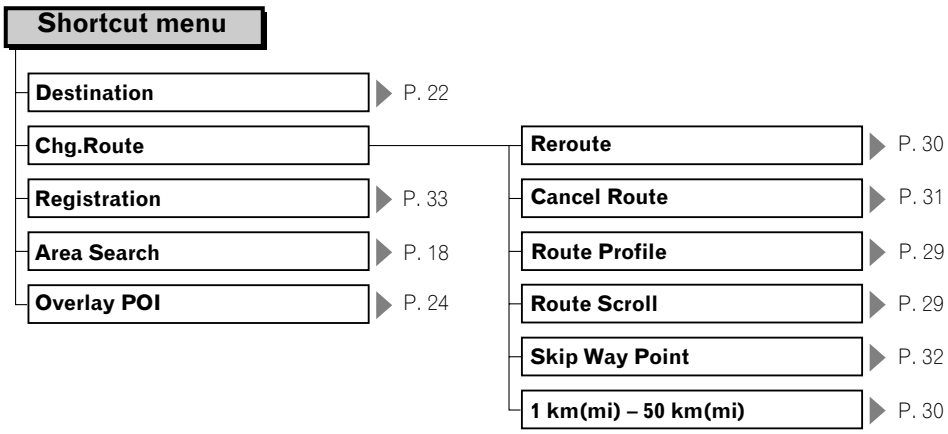

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